

MERIDIAN OIL

September 10, 1986

State of Utah Natural Resources
Oil, Gas and Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Arlene Sollis

RECEIVED
SEP 12 1986

**DIVISION OF
OIL, GAS & MINING**

Re: Application for Permit to Drill
22-19 Havasu-Federal
SENW Section 19-38S-24E
San Juan County, Utah
Federal Lease No. U-56186

Gentlemen:

Enclosed are three copies of Form 3160-3, Application for Permit to Drill with attachments for the above referenced location.

Please be advised that Meridian Oil Inc. requests that all pertinent data for this location be granted TIGHT HOLE status.

If you have any questions, please do not hesitate to call me at 406-256-4122.

Sincerely,

Suzanne S. Nelson

S. S. Nelson
Sr. Operations Technician

ssn

Encl

1175N

CONFIDENTIAL
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK <div style="display: flex; justify-content: space-around;">DRILL <input checked="" type="checkbox"/>DEEPEN <input type="checkbox"/>PLUG BACK <input type="checkbox"/></div>		5. LEASE DESIGNATION AND SERIAL NO. U-56186
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME --
2. NAME OF OPERATOR MERIDIAN OIL INC.		7. UNIT AGREEMENT NAME --
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		8. FARM OR LEASE NAME Havasut-Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface: SENW (1850' FNL - 1255' FWL) At proposed prod. zone: Same		9. WELL NO. 22-19
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 5 miles NW of Hatch Trading Post		10. FIELD AND POOL, OR WILDCAT Havasut WILDCAT
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1255'	16. NO. OF ACRES IN LEASE 3427.68	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19, T38S, R24E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. -	19. PROPOSED DEPTH 6200' <i>ask</i>	12. COUNTY OR PARISH San Juan
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5080' GL (ungraded), 5079' GL (graded)		13. STATE Utah
23. PROPOSED CASING AND CEMENTING PROGRAM		17. NO. OF ACRES ASSIGNED TO THIS WELL 40
		20. ROTARY OR CABLE TOOLS Rotary
		22. APPROX. DATE WORK WILL START* September 29, 1986

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48#	80'	Redi-Mix to surface
11	8-5/8	24#	1,700'	Single stage. Cmt to sfc w/320 sx "B" +3% salt, 16% gel & .2% rtrdr & 110 sx "B" + 2% CaCl ₂ .
7-7/8	5-1/2	15.5#	6,200'	Single stage. TOC @ 1500'. Cal. log + 20% excess. "B" + 16% gel, 3% salt, .4% rtrdr & "B" + 3% Kcl + .8% fluid loss.

RECEIVED
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DIVISION OF
OIL, GAS & MINING

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Oil and Gas Order #1

Attachments:

Survey Plat

Eight Point Drilling Program

Thirteen Point Surface Use Plan

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED B. J. C. [Signature] TITLE Sr. Drilling Engineer DATE 9/9/86
(This space for Federal or State office use)

PERMIT NO. 43-037-31278

APPROVED BY THE STATE

APPROVAL OF UTAH DIVISION OF
OIL, GAS, AND MINING

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

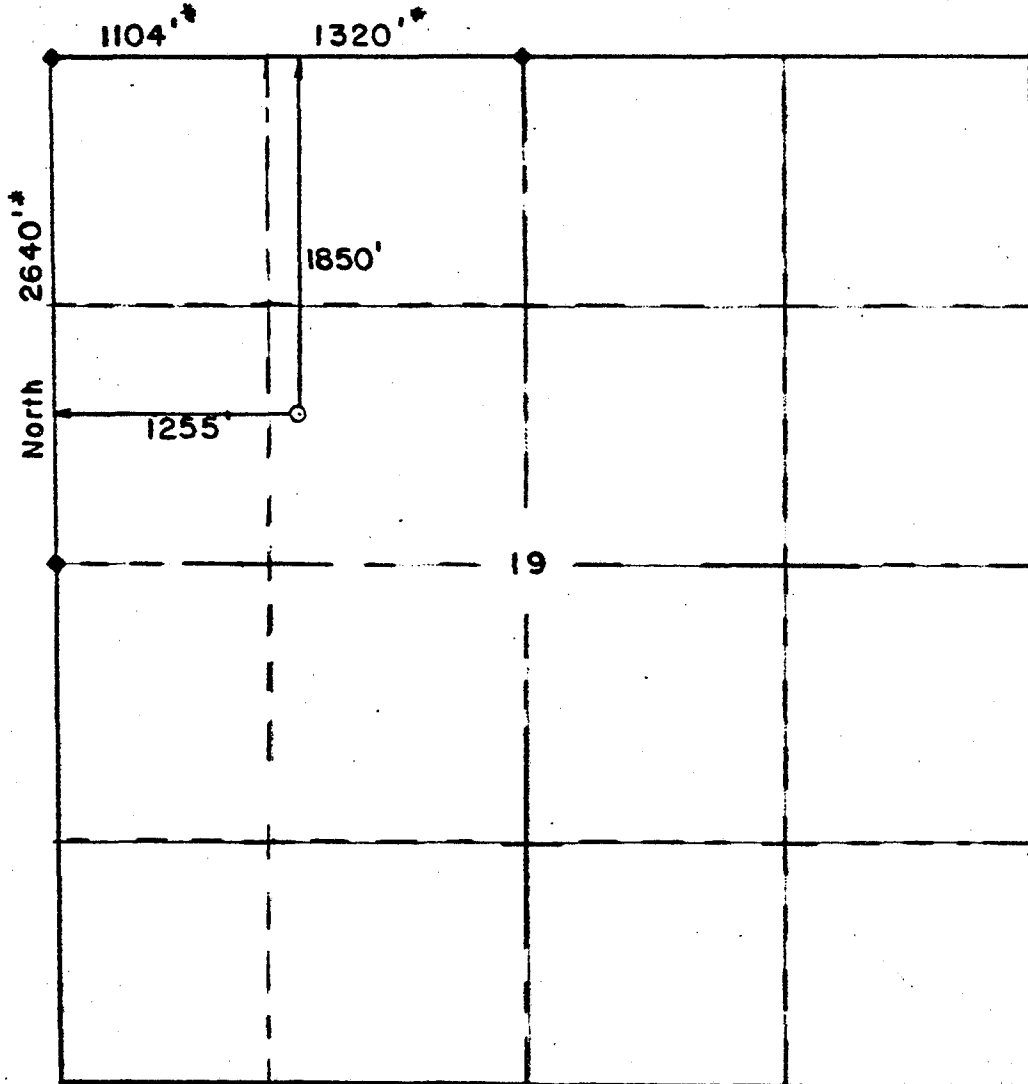
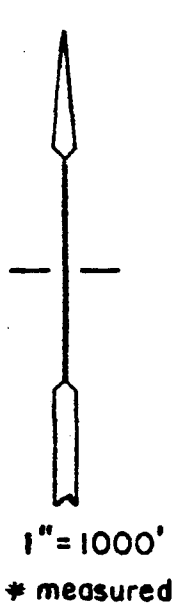
DATE: 9-18-86

BY: John R. [Signature]

WELL SPACING: 3121

*See Instructions On Reverse Side

Well Location Plat



WELL LOCATION DESCRIPTION:

MERIDIAN OIL
22-19 FEDERAL HAVASU
1850' FN & 1255' FW
SECTION 19, T38S, R24E, SLM
SAN JUAN COUNTY, UTAH
GROUND ELEVATION 5080'

REFERENCES:

1440' FN & 1210' FW
5105' GRD.
200' East 5096' GRD.

The above plat is true and correct to the best of my knowledge and belief.

Gerald G. Huddleston
GERALD G. HUDDLESTON
Land Surveyor

2 Sept 1986

LAW OFFICES

PRUITT, GUSHEE & FLETCHER

ROBERT G. PRUITT, JR.
OLIVER W. GUSHEE, JR.
F. ALAN FLETCHER
ROBERT G. PRUITT, III
THOMAS W. BACHTELL

SUITE 1850 BENEFICIAL LIFE TOWER

SALT LAKE CITY, UTAH 84111

(801) 531-8446

TELECOPIER (801) 531-8468

OF COUNSEL
JAMES F. SHEPHERD

September 9, 1986

Division of Oil, Gas & Mining
Department of Natural Resources
State of Utah
355 West North Temple
III Triad Center, Suite 350
Salt Lake City, Utah 84108-1203

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 9/9/86
BY: [Signature]

Re: Request for Exception
Location; SE $\frac{1}{4}$ NW $\frac{1}{4}$,
Section 19, T38S-R24E, SLM

Gentlemen:

Meridian Oil, Inc. plans to commence a well at the following location within the next fifteen (15) days:

1850 feet FLN, 1255 feet FWL, Section 19,
T38S-R24E, SLM, San Juan County, Utah

This location requires approval as an exception location under Rule 302.1 of the Oil and Gas Conservation General Rules effective December 2, 1985.

Meridian Oil, Inc. and its partner, BWAB Inc. have secured the drilling rights from the current leasehold owner, Peggy Yates, in the entire NW $\frac{1}{4}$ of subject Section 19. See attached Affidavit of William C. Mitchell.

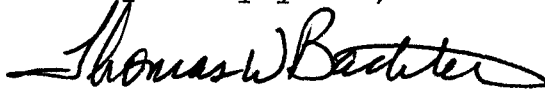
The reason for the requested exception location is both topographical and geological. A drainage runs through the preferred legal location in the SW $\frac{1}{4}$ NW $\frac{1}{4}$. Because of this drainage problem, it is not possible to drill a well at a legal location on said tract. As a result, Meridian Oil has moved the location to the East sufficient to avoid the drainage problem but to remain on the geological structure.

A Lease Ownership Plat is attached to the Affidavit of William C. Mitchell as Exhibit "A". The Exhibit "B" is a topographical plat which shows the location of the drainage area and depicts a geological feature. This information is proprietary and very sensitive and therefore, it is requested that the State maintain this plat in a confidential file.

Division of Oil, Gas & Mining
September 9, 1986
Page Two

The exception location for the proposed well is requested in order to encounter the best location for ultimate recovery of oil from the leasehold estate. Thank you for your consideration in this matter.

Very truly yours,

A handwritten signature in cursive script, reading "Thomas W. Bachtell". The signature is written in dark ink and is positioned above the printed name.

Thomas W. Bachtell

TWB:tem
0880.24
Enclosures
cc: William C. Mitchell, Landman

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL No.: U-56186

and hereby designates

NAME: Meridian Oil, Inc.
ADDRESS: 5613 D.T.C. Parkway
Englewood, Colorado 80111

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

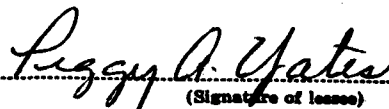
Township 38 South, Range 24 East, SLM
Section 19: Lots 1, 2, E/2NW/4
San Juan County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

PEGGY A. YATES


(Signature of lessee)

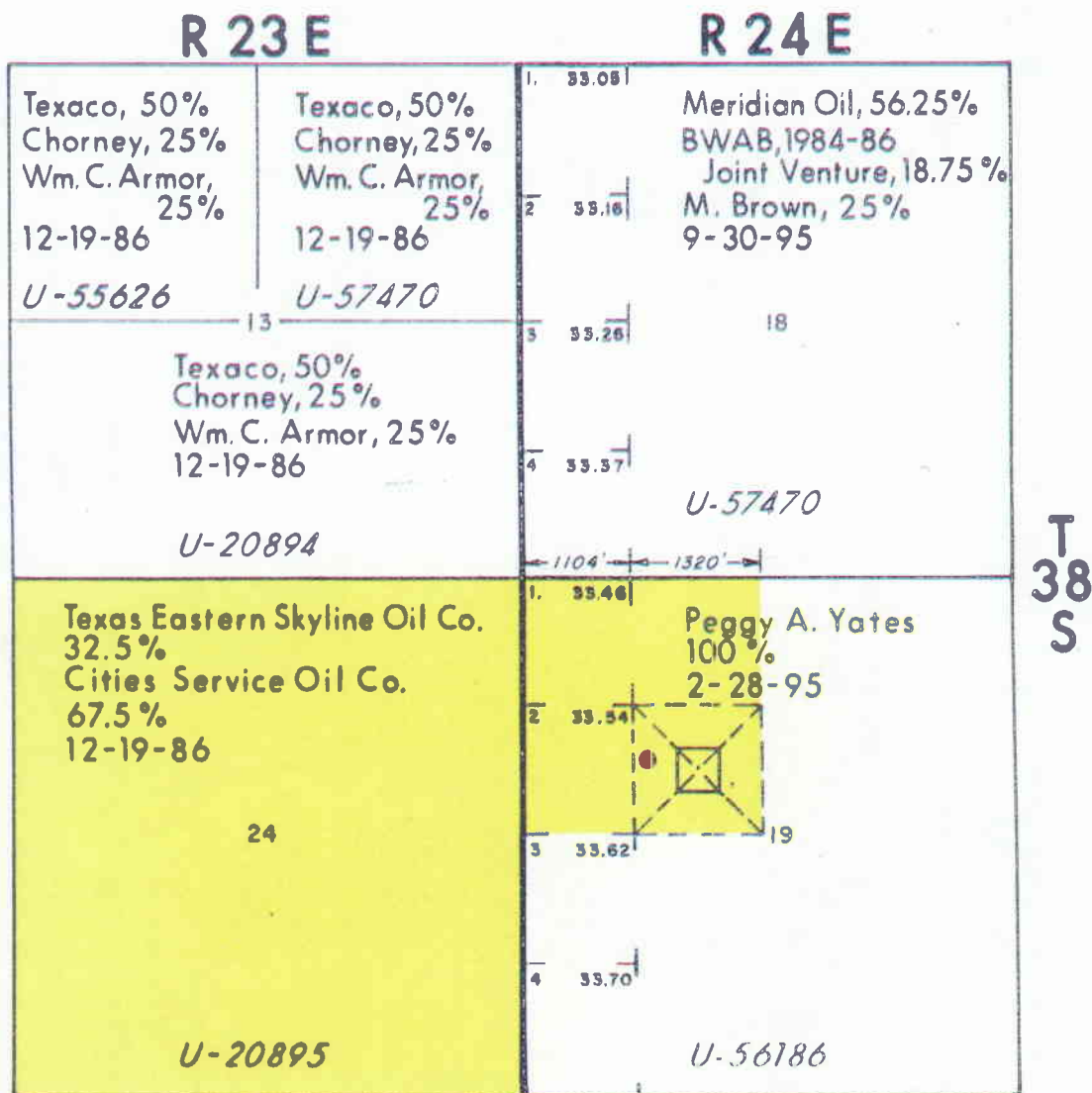
August 12, 1986

(Date)

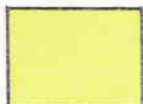
105 South Fourth Street
Artesia, New Mexico 88210

(Address)

EXHIBIT "A"



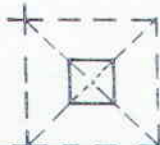
LEGEND



**MERIDIAN OIL / BWAB
FARMIN ACREAGE**

PROPOSED LOCATION:
22-19 HAVASU FEDERAL
1850' fwl, 1255' fwl of sec. 19,
T 38 S - R 24 E

400 ft. "WINDOW" (center of the
sesw, sec. 19, T38S-R24E



MERIDIAN OIL

HAVASU PROSPECT

SAN JUAN COUNTY, UTAH

GEO-SCIENTIST
J.G.S.Q.
DRAFTER/GEOTECH
8/22/86
DATE
DENVER
OFFICE LOC.
REVISED DATE
MAP NUMBER

Scale: 1" = 2,000'

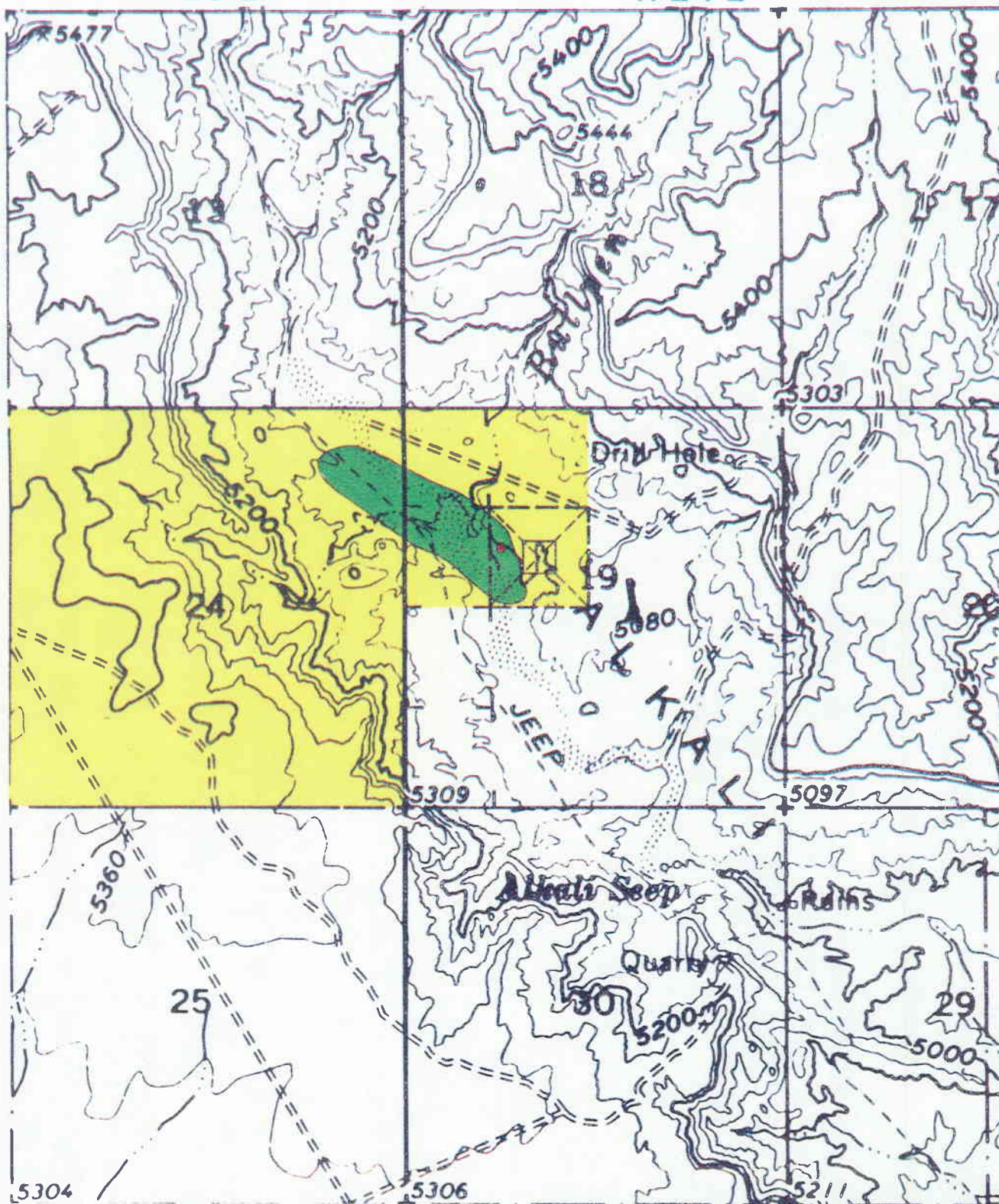
C.I.

EXHIBIT "B"

R 23 E

R 24 E

T 38 S



LEGEND

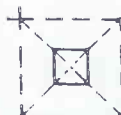


**MERIDIAN OIL / BWAB
FARMIN ACREAGE**



PROPOSED LOCATION:

22-19 HAVASU FEDERAL
1850' fml, 1255' fml of sec. 19,
T 38 S - R 24 E



400 ft. "WINDOW" (center of the
seew, sec. 19, T38S-R24E

MERIDIAN OIL

HAVASU PROSPECT

DESCRIPTION
JGSQ
DRAWN BY/GEOTECH
8/22/86
DATE
DENVER
OFFICE LOC.
REVISED DATE
MAP NUMBER

SAN JUAN COUNTY, UTAH

Scale 1" = 2,000'

C.S.

1256N/0073N

OIL AND GAS ORDER NO. 1

MERIDIAN OIL INC.

LEASE NAME: 22-19 Havasu-Federal
LEASE NO. U-56186
LOCATION: SENW Section 19-38S-24E
1850' FNL - 1255' FWL
San Juan County, Utah
Havasu Field

A. EIGHT POINT DRILLING PROGRAM

1. & 2. Estimated Tops:

Morrison	Surface	
Entrada	762	
Navajo	945	fresh water
Chinle	1925	
Shinarump	2803	
Cutler	2925	
Hermosa	4763	
Upper Ismay	5695	oil
Top Porosity	5765	
A Shale	5827	
Lower Ismay	5848	
Desert Creek	5922	oil
Chimney Rock	6010	
Akah	6034	
TD	6200	

3. Pressure Control Equipment:

- a. A 2000 psi WP wellhead will be installed on the surface casing. A 3000 psi WP Annular preventer and 3000 psi WP double gate preventer equipped with blind and pipe rams will be nipped up on wellhead.
- b. BOP systems will be consistent with API RP 53. Annular preventer will be tested to 1500 psi against casing. Pipe and blind rams, choke line and manifold will be tested to 2000 psi against casing. Casing will be tested to 2000 psi prior to drilling float shoe. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventor controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

4. Casing program:

Anticipated cement tops will be reported as to depth, not the expected number of sacks. The San Juan Resource Area will be notified 1 day before running casing strings and cement.

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STATE OF COLORADO)
) ss.
COUNTY OF ARAPAHOE)

TO WIT:

Now, this 8th day of September, 1986, comes the affiant herein, WILLIAM C. MITCHELL, being of lawful age and the first duly sworn, and does now depose and say:

That he is employed as a Landman with Meridian Oil Inc., and in said capacity is acquainted with the facts and allegations herein, and

That the plat attached hereto and made a part hereof as "Exhibit A" is accurate to scale and reflects pertinent data required pursuant to oil & gas conservation rule No. 302.1,

And further, that to his information and belief, that Peggy A. Yates owns current record title to 100% of the leasehold rights under the following described lands:

Township 39^{NEM} South, Range 24 East
Section 19: All

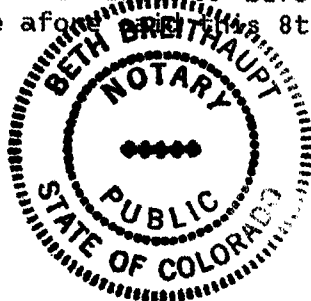
That Meridian Oil Inc. and its partner, BWAB Inc., have secured the drilling rights from Peggy A. Yates under that certain farmout agreement dated August 15, 1986 along with a Designation of Operator form (attached), and thereby control the operating rights in the leasehold interest under the following described lands in San Juan County, Utah:

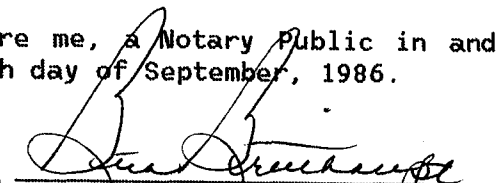
Township 39^{NEM} South, Range 24 East
Section 19: NW/4

Further affiant sayeth not.


William C. Mitchell

Taken, sworn and subscribed to before me, a Notary Public in and for the County and State aforesaid, this 8th day of September, 1986.




Beth Breithaupt, Notary Public
5613 DTC Parkway
Englewood, CO 80111

<u>Hole Size</u>	<u>Size</u>	<u>Depth</u>	<u>Casing</u>				<u>Cementing Program</u>
			<u>Weight</u>	<u>Grade</u>	<u>Thrd</u>	<u>Cond</u>	
17-1/2	13-3/8	80	48#	H-40	ST&C	New	Redi-Mix to surface.
11	8-5/8	1,700	24#	K-55	ST&C	New	Single stage. Cement to sfc w/320 sx "B" + 3% salt + 16% gel + .2% retarder & 110 sx "B" + 2% CaCl ₂ .
7-7/8	5-1/2	6,200	15.5#	K-55	LT&C	New	Single stage. TOC @ 1500'. Caliper log + 20% excess. "B" + 16% gel + 3% salt + .4% retarder & "B" + 3% Kcl + .8% fluid loss.

5. Proposed drilling mud program:

A water base mud system from surface to TD. Maximum anticipated mud weight is 9.3#/gallon.

A mud logging unit will be on location from 3300' to TD.

6. Testing program:

Lower Desert Creek - Possible
 Upper Ismay - Possible

Logging program:

Cal/GR/DLL/MSFL Base surface casing to TD (GR to surface)
 Cal/GR/Sonic Base surface casing to TD (GR to surface displays)
 Cal/GR/CNL/FDC 5200' to TD
 Directional Survey Base 8-5/8" to TD
 Dipmeter: If Desert Creek indicates productive.

Coring program:

None planned.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. If requested, samples (cuttings, fluids, and/or gases) will be submitted to the District Manager.

CONFIDENTIAL INFORMATION

7. Anticipated abnormal BHP or BHT:

No abnormal BHP or BHT are expected in this well.

Potentially hazardous conditions anticipated:

No H₂S has been found, reported or is known to exist at these depths in this area.

8. Anticipated Starting Dates and Notifications of Operations

The operator will contact the San Juan Resource Area at 801-587-2201, 48 hours before beginning any dirt work.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours after spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If the spudding is on a weekend or holiday, the Sundry will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the BLM District Office, P. O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If a replacement rig is planned for completion operations, a Sundry Notice (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergencies, verbal approval can be given by the District Petroleum Engineer.

If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 business days following the date on which the well is placed on production.

No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergencies, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.

Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager, or the appropriate surface manager.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently beaded-on with a welding torch: Fed. well number, location by 1/4 1/4 section, township and range, Lease number.

A first production conference will be scheduled within 15 days after receipt of the first production notice. The San Juan Area Manager will schedule the conference.

Other: A separate rig will be used for completion operations.

The following may be inspected and/or witnessed:

1. The cementing and testing of surface casing.
2. (Dry Hole) Setting and testing of surface casing shoe plug.
3. (Depleted Producer) The setting and testing of plugs across the producing horizon and if applicable, the surface casing shoe plug and/or annulus (casing to formation) squeeze jobs.

Notify the San Juan Resource Area (Mike Wade) one day or on dry hole as soon as possible prior to the above at (801) 587-2141 (Home) (801) 587-2026 or if unable to reach Mike, call Moab District office Greg Noble at (801) 259-6111 (Home) (801) 259-8811.

B. THIRTEEN POINT SURFACE USE PLAN

1. Existing Roads (Yellow)

- a. Location of proposed well in relation to town or other reference point:
5 miles northwest of Hatch Trading Post.
- b. Proposed route to location. (See attached Exhibit "1").
- c. Existing and new access shall be maintained in good or better condition.
- d. An encroachment permit will be obtained from the San Juan County Road Dept., (801) 587-2231, ext. 43.

2. Planned Access Roads (Blue)

- a. The maximum total width will be 25 feet.
- b. Maximum grade is 0%.
- c. There will be no turnouts.
- d. Road is centerline flagged.
- e. Road will be drained as needed.
- f. If well is drilled during wet winter conditions, surface materials may be required to avoid maintenance problems.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.

The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drill rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.

The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossing; and culverts will be determined at the appropriate field inspection.

3. Location of Existing Wells (1 mile radius)

- a. Existing wells in the area are shown on attached Exhibit "1".

4. Location of Existing and/or Proposed Facilities if Well is Productive

Battery facility is shown on attached Exhibit "4".

All permanent (on site for 6 months or longer) above ground facilities (including pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be Desert Brown.

All flowlines will be buried parallel to existing roads unless authorized otherwise by BLM.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place before any deliveries. Tests for meter accuracy will be conducted monthly for the first 3 months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the San Juan Area Manager. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply

All water needed for drilling purposes will be obtained at a point: N 798.06 ft & E 1876.41 ft from SW corner of Section 28, T38S, R25E (BLM artesian well) or will be hauled by a commercial water hauler from Blanding.

Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer, (801) 637-1303 and by receiving permission from the landowner or surface management agency to use the land containing the water source.

6. Source of Construction Materials

Native soil materials from drilling location and access trail, which is available, will be used. Any additional materials needed will be hauled in from authorized commercial sources.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

7. Methods for Handling Waste Disposal

The reserve pit will be lined with commercial bentonite sufficient to prevent seepage. At least half of the capacity will be in cut.

Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

A trash pit will be constructed near the mud tanks and dug at least six feet into solid undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free.

A burning permit is required for burning trash between May 1 and October 31. This can be acquired by contacting the State fire Warden, John Baker, at (801) 587-2705.

Produced waste water will be confined to a (lined/unlined) pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

8. Ancillary Facilities

Camp facilities will not be required.

9. Well Site Layout

Rig layout is shown on attached Exhibit "9a".

Cuts and fills are shown on attached Exhibit "9b".

The top 6 inches of soil material will be removed from the location and stockpiled on the southeast side of well pad. Topsoil along the access will be reserved in place.

Access to the well pad will be from the northwest corner.

10. Reclamation:

- a. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator/holder or his contractor will contact the San Juan Resource Area office in Monticello, Utah, (801) 587-2201, 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.

- f. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet
5+%	Every 50 feet

- g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

<u>3</u>	<u>lbs/acre Indian ricegrass (Oryzopsis hymenoides)</u>
<u>3</u>	<u>lbs/acre Galleta (Hilaria jamesii)</u>
<u>3</u>	<u>lbs/acre crested wheatgrass (Agropyron desertorum)</u>
<u>2</u>	<u>lbs/acre Fourwing saltbush (Atriplex canescens)</u>

- h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.
- i. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11. Surface Ownership: Federal
Mineral Ownership: Federal

12. Other Information

There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator/holder that they are subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will be done by a BLM approved archaeologist only if damage occurs.

This permit will be valid for a period of one year from the date of approval. After permit termination a new application will be filed for approval for any future operations.

Your contact with the District Office is: Greg Noble
Office Phone: 801-259-6111 Address: P. O. Box 970, Moab, UT 84532

Resource Area Manager's Address and contacts:
Address: P. O. Box 7, Monticello, UT 84535

Your contact is: Rich McClure
Office Phone: 801-587-2141

13. Lessee or Operator's Field Representative and Certification

Meridian Oil Inc.

P. O. Box 1855

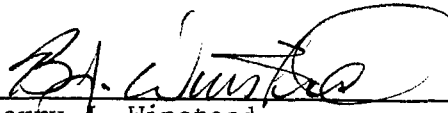
Billings, Montana 59103

1.	Johnny L. Wright, Drilling Supt.	406-256-4175	406-252-2889
2.	Bill Lloyd, Drilling Engineer	406-256-4129	406-252-2328
3.	John Pulley, Completion Supt	406-256-4124	406-259-6156
4.	Barry Winstead, Sr. Drilling Engineer	406-256-4030	406-656-7521

O&G Order No. 1
22-19 Havasu-Federal
1256N/Page 10

CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and, that the work associated with the operations proposed herein will be performed by Meridian Oil Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.



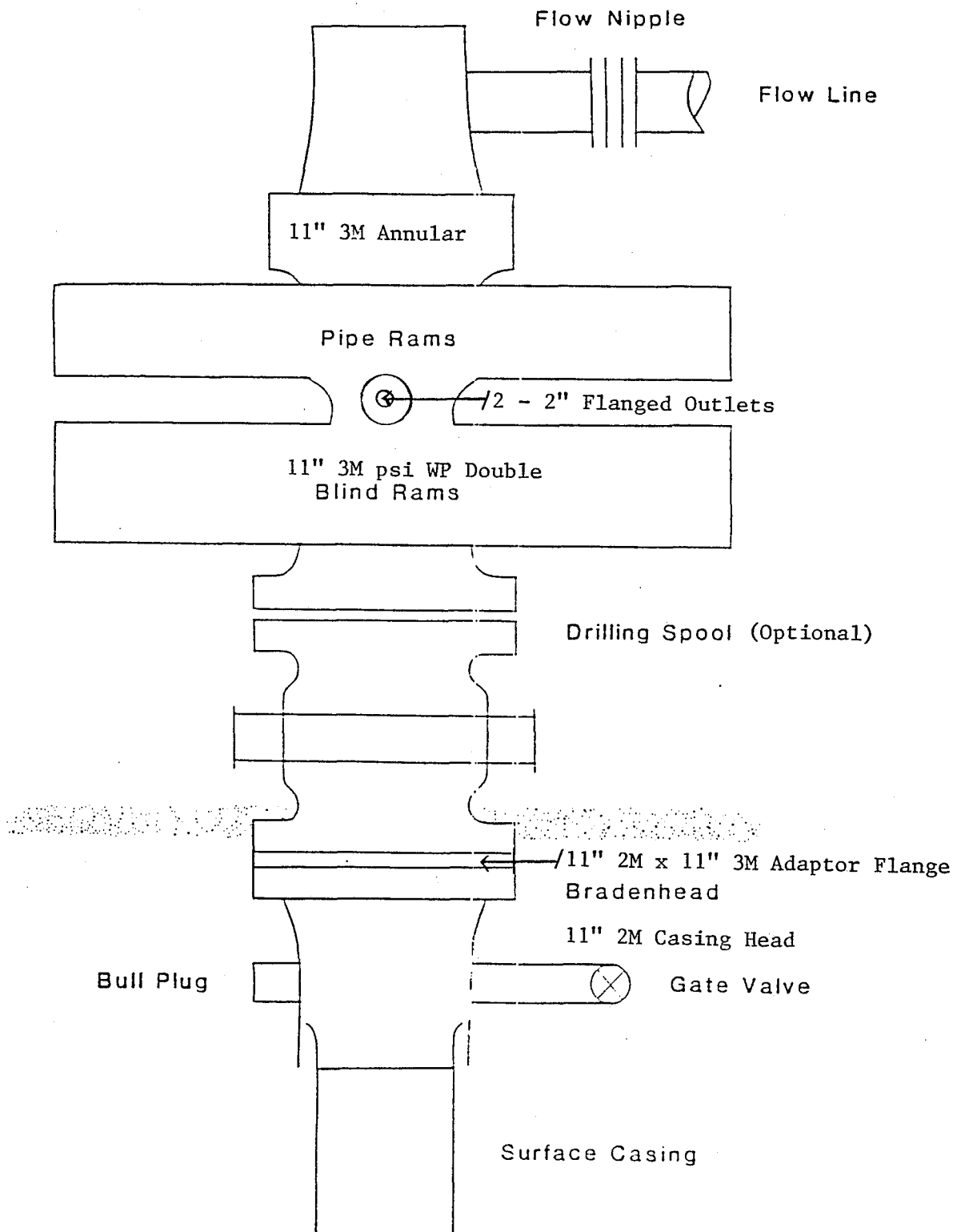
Barry J. Winstead
Sr. Drilling Engineer

9/9/86

Date

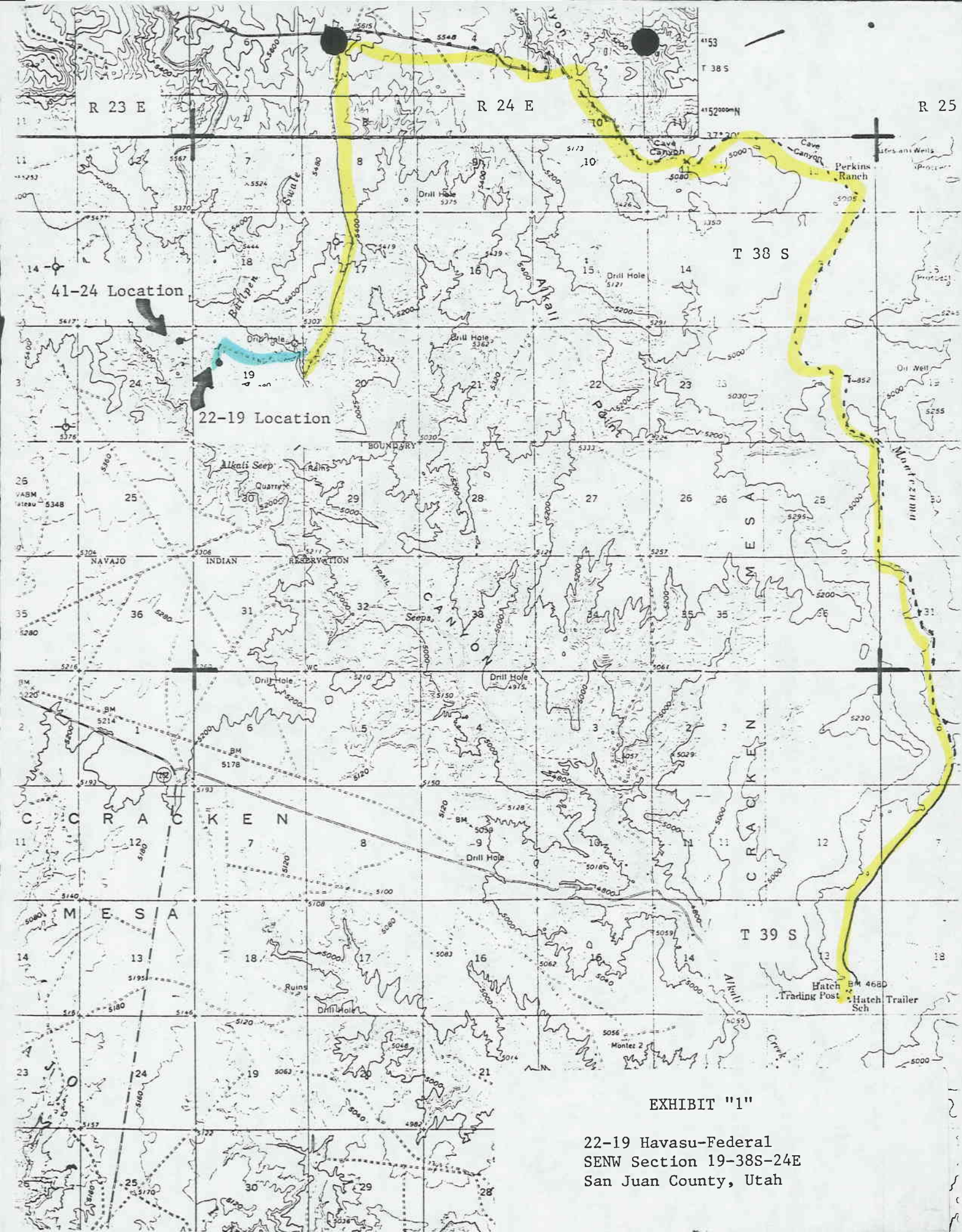
ssn

TYPICAL B.O.P. INSTALLATION



Series 900 Double Gate B.O.P.,
rated at 3000 psi Working Pressure.

When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



22-19 Federal Havasu

22-19 Federal Havasu



1" = 60'

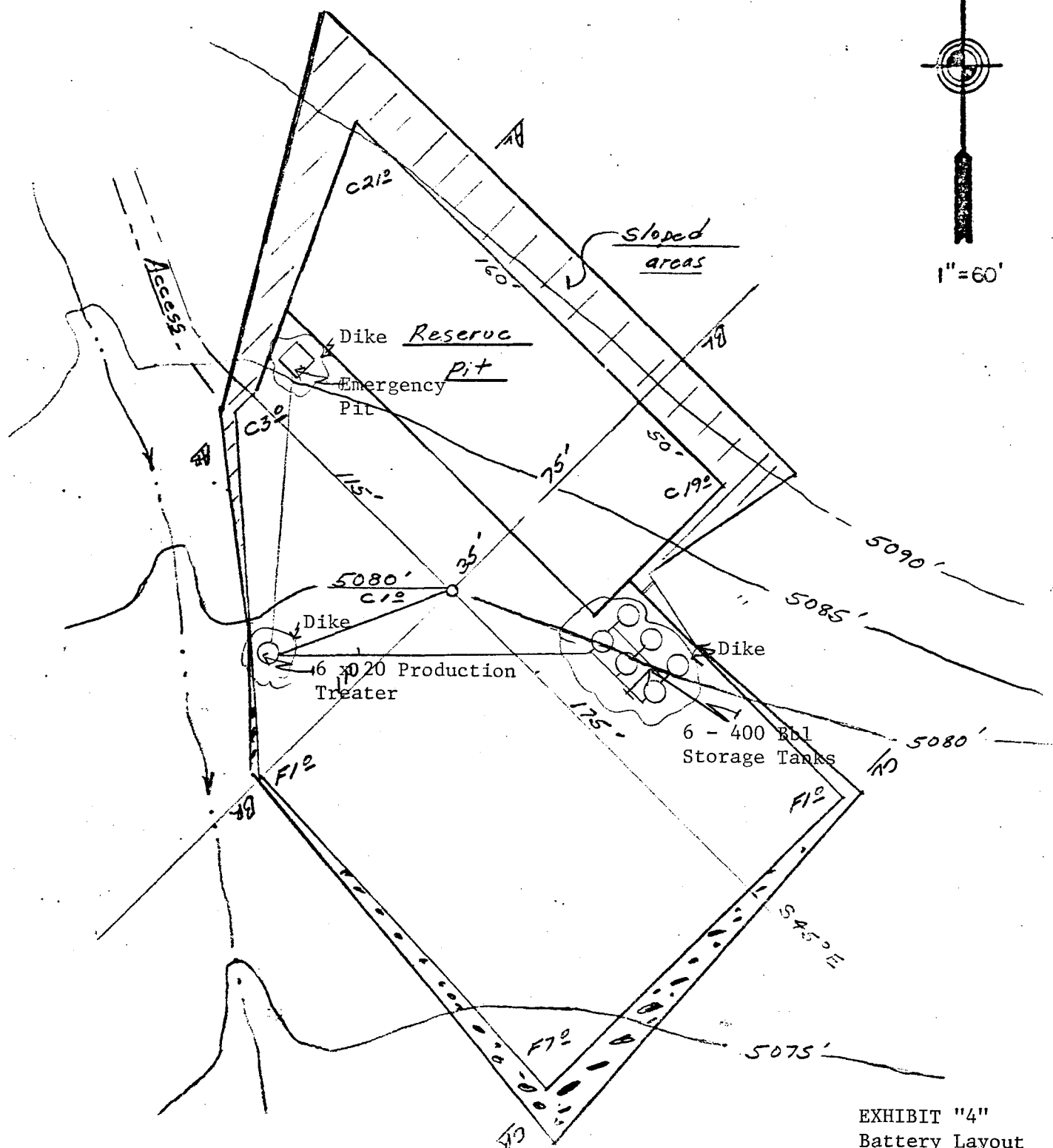


EXHIBIT "4"
Battery Layout

22-19 Federal Havasu

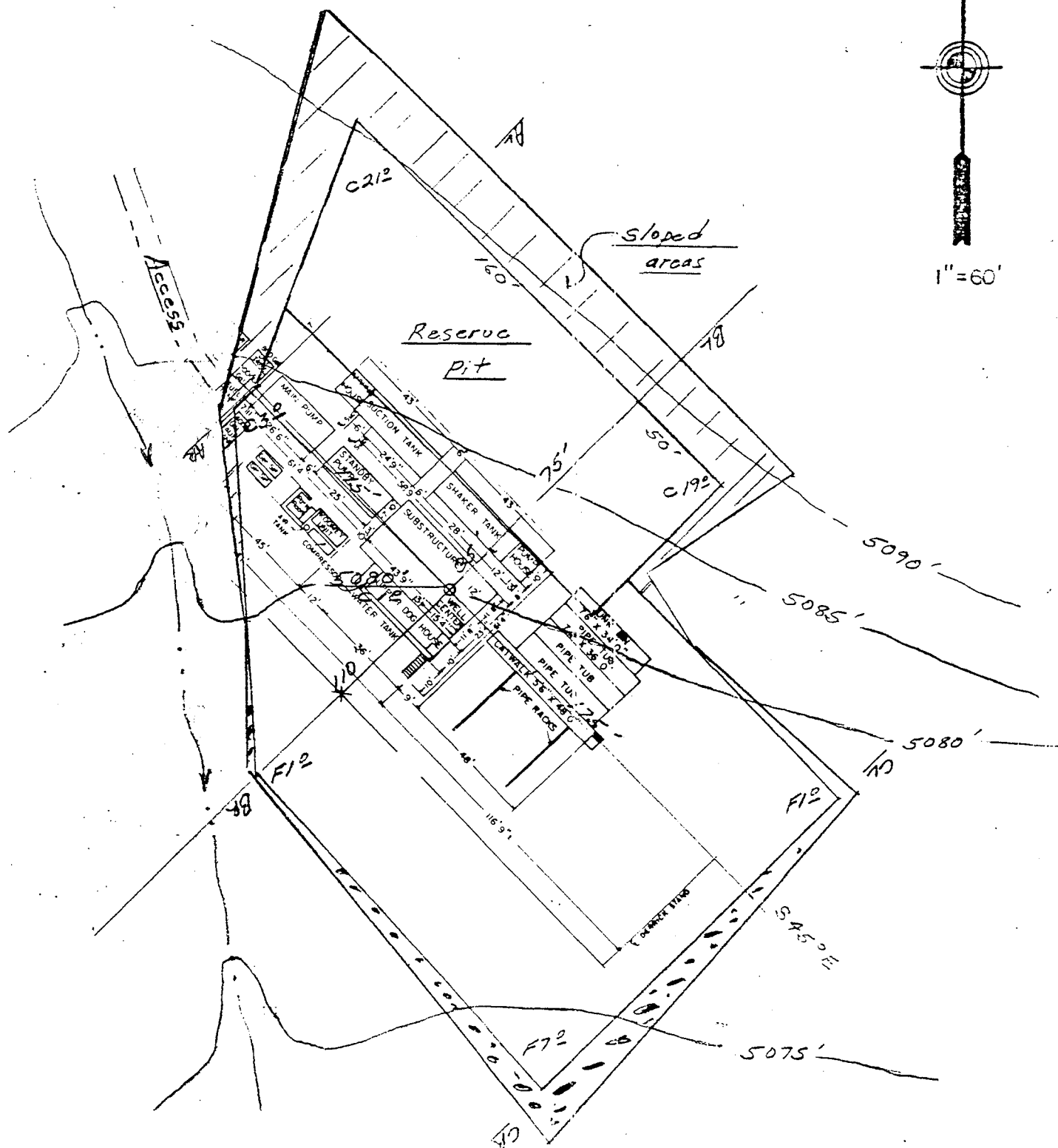

$$1'' = 60'$$


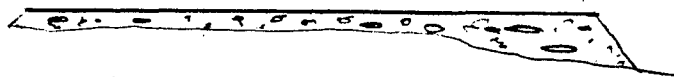
EXHIBIT "9a"
Rig Layout

WELL PAD CROSS-SECTION

22-19 Federal Havasu

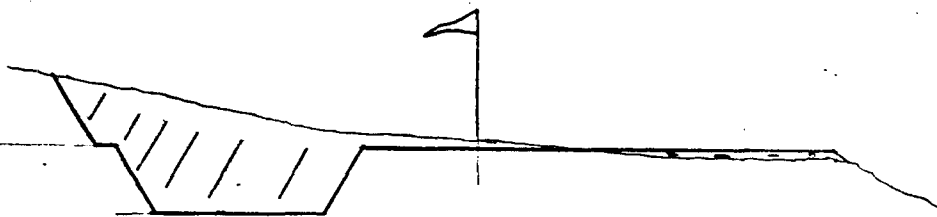
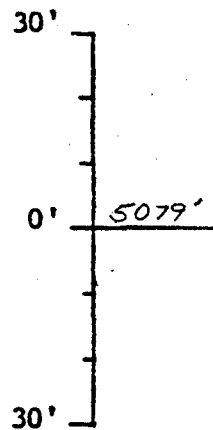
Cut /////
Fill 

Scales: 1" = 60' H.
1" = 30' V.



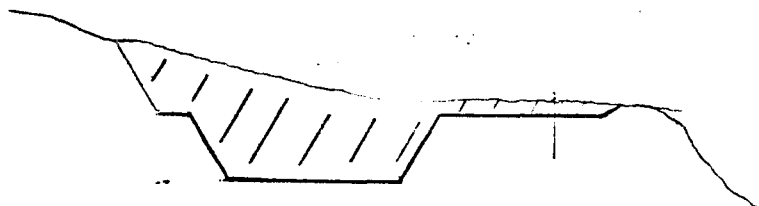
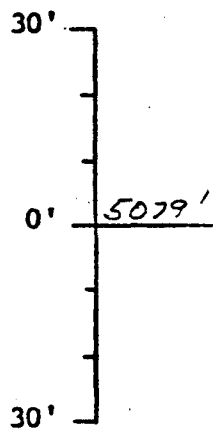
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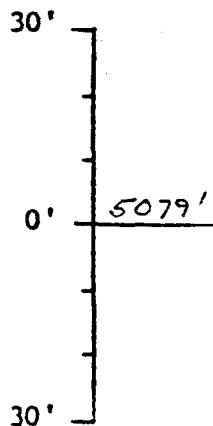
BL

BR



AL

AR



DUPLICATE COPIES OF WELL HISTORY INFORMATION

RECORD OF SHIPMENT OF CONFIDENTIAL INFORMATION

CONFIDENTIAL

FROM: C. L. Crawley
Name
Sr. Staff Geologist
Title
DATE: December 2, 1986
VIA: Mail

RE: All information pertains to the Havasu Federal #22-19, San Juan
Co., Utah, 19-38S-24E / API 43-037-31278

[illegible]

INSTRUCTIONS: Please acknowledge receipt promptly by signing and returning the copy.

RECEIVED BY: _____ DATE: _____

REMARKS : All information pertains to the Havasu Federal #22-19, San Juan
Co., Utah, 19-38S-24E / API 43-037-31278

~~CONFIDENTIAL~~

002305

072301 off conf.

OPERATOR Meridian Oil Inc. DATE 9-15-86

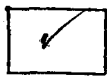
WELL NAME Haras Federal 22-19

SEC SE NW 19 T 38S R 24E COUNTY San Juan
(Irregular Section)

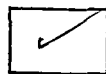
43-037-31278
API NUMBER

Oil
TYPE OF LEASE

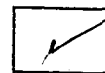
CHECK OFF:



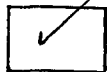
PLAT



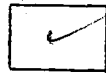
BOND



NEAREST
WELL



LEASE



FIELD



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other well in Sec. 19.

Need water permit

Exception requested

APPROVAL LETTER:

SPACING: ☐ 203 UNIT

☐ 302



CAUSE NO. & DATE

☒ 302.1

STIPULATIONS:

1- water



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 18, 1986

Meridian Oil Inc.
P. O. Box 1855
Billings, Montana 59103

Gentlemen:

Re: Well Name: Havasu Federal 22-19 - SE NW Sec. 19, T. 38S, R. 34E
1850' FNL, 1255' FWL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302.1, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.

Page 2

Meridian Oil Inc.

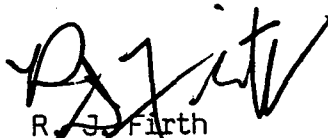
Well Name: Havasu Federal 22-19

September 18, 1986

5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable State and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.
6. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31278.

Sincerely,



R. J. Firth

Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

D. R. Nielson

8159T

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

092903

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

MERIDIAN OIL INC.

3. ADDRESS OF OPERATOR

P. O. Box 1855, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

SENW (1850' FNL - 1255' FWL)

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5 miles NW of Hatch Trading Post

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1255'

16. NO. OF ACRES IN LEASE

3427.68

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

-

19. PROPOSED DEPTH

6200'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5080' GL (ungraded), 5079' GL (graded)

22. APPROX. DATE WORK WILL START*

September 29, 1986

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48#	80'	Redi-Mix to surface
11	8-5/8	24#	1,700'	Single stage. Cmt to sfc w/320 sx "B" +3% salt, 16% gel & .2% rtrdr & 110 sx "B" + 2% CaCl ₂ .
7-7/8	5-1/2	15.5#	6,200'	Single stage. TOC @ 1500'. Cal. log + 20% excess. "B" + 16% gel, 3% salt, .4% rtrdr & "B" + 3% Kcl + .8% fluid loss.

RECEIVED
SEP 25 1986

DIVISION OF

Oil and Gas Order #1

OIL, GAS & MINING

Attachments:

Survey Plat

Eight Point Drilling Program

Thirteen Point Surface Use Plan

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

B. J. C. [Signature]

TITLE Sr. Drilling Engineer

DATE

9/9/86

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

Kenneth V. Rhea

Acting

DISTRICT MANAGER

DATE

SEP 24 1986

CONDITIONS OF APPROVAL, IF ANY:

FLARING OR VENTING OF
GAS IS SUBJECT OF NTL 4-A
DATED 1/1/80

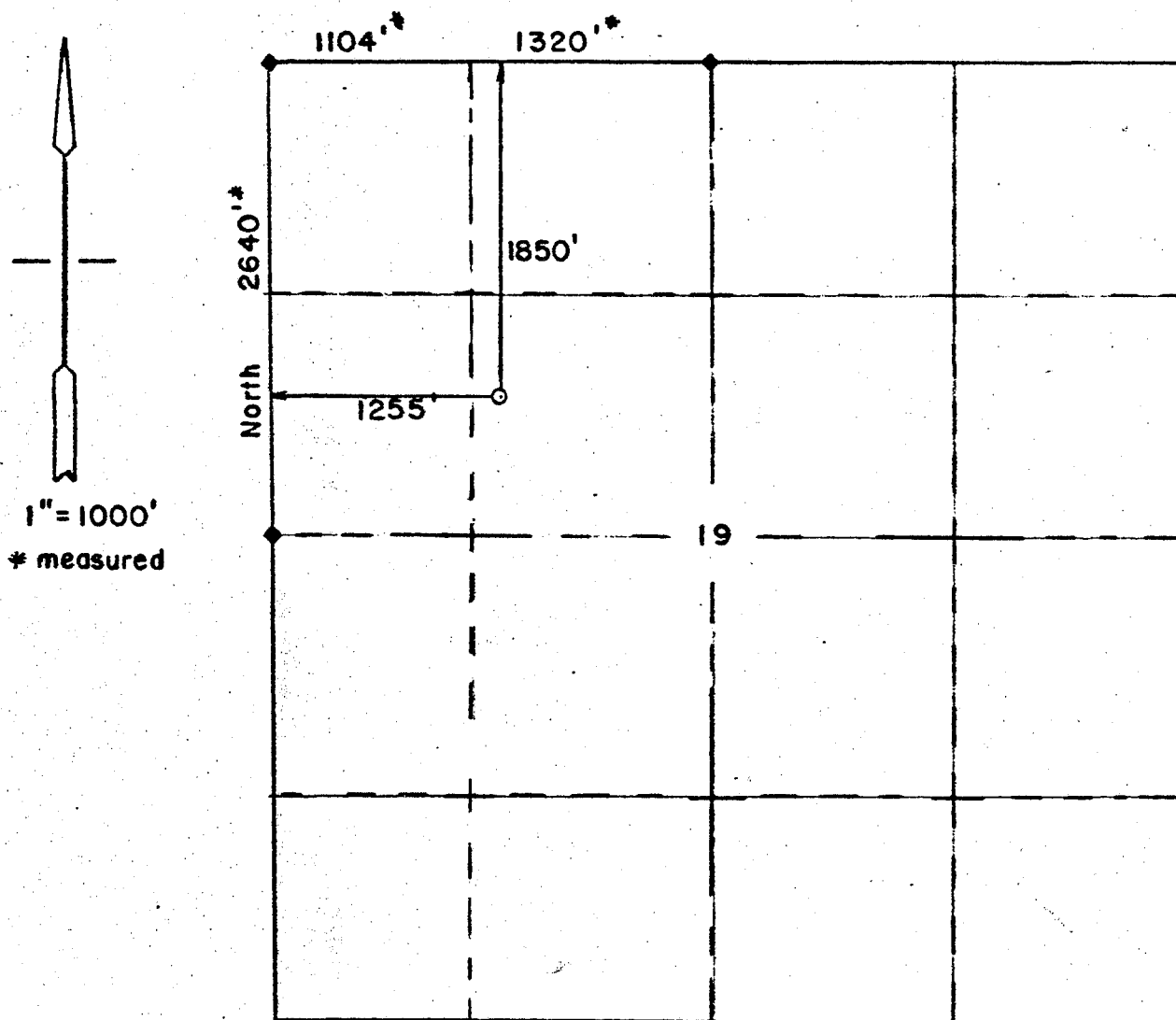
CONDITIONS OF APPROVAL ATTACHED

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH - 005M

Well Location Plat



WELL LOCATION DESCRIPTION:

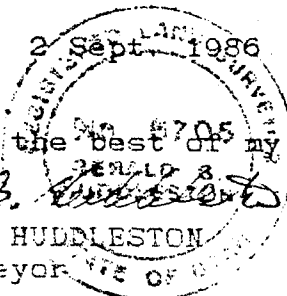
MERIDIAN OIL
22-19 FEDERAL HAVASU
1850' FN & 1255' FW
SECTION 19, T38S, R24E, SLM
SAN JUAN COUNTY, UTAH
GROUND ELEVATION 5080'

REFERENCES:

1440' FN & 1210' FW
5105' GRD.
200' East 5096' GRD.

The above plat is true and correct to the best of my knowledge and belief.

Gerald G. Huddleston
GERALD G. HUDDLESTON
Land Surveyor



Meridian Oil Inc.
Well No. Havasu-Federal 22-19
Sec. 19, T. 38 S., R. 24 E.
San Juan County, Utah
Lease U-56186

RECEIVED
FEDERAL LAND
MANAGEMENT
SILVER HOLLOW
SANDS
DEC 1981

B. THIRTEEN POINT SURFACE USE PLAN

1. Planned Access Roads

- a. Maximum grade will be 10%.
- b. No blade cutting will be allowed where the access road crosses the Pure Oil Pipeline in T. 38 S., R. 24 E., Section 19: NENE (i.e., the road crossing this pipeline right-of-way will be constructed with fill).

Pure Oil will be contacted prior to road construction over the pipeline (Rick Costanza, (801) 686-2311 or (801) 259-2023).

WATER 09.1482
(T62085)

100115

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

43-037-31278

NAME OF COMPANY: MERIDIAN OIL

WELL NAME: #22-19 HAVASU FEDERAL

SECTION 19 TOWNSHIP 38S RANGE 24E COUNTY SAN JUAN

DRILLING CONTRACTOR AZTEC DRILLING

RIG # 301

SPODDED: DATE 9-30-86

TIME

HOW ROTARY

DRILLING WILL COMMENCE

REPORTED BY KEITH MUIRHEAD

TELEPHONE # 678-2278 rm. 103

DATE 9-30-86 SIGNED JRB

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-56186
2. NAME OF OPERATOR MERIDIAN OIL INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME --
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59013		7. UNIT AGREEMENT NAME --
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SEW (1850' FNL - 1255' FWL)		8. FARM OR LEASE NAME Havasu-Federal
14. PERMIT NO. 43-037-31278		9. WELL NO. 22-19
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5092' KB		10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19-38S-24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Spud Report</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Aztec, Rig #301, spudded well @ 3:00 PM September 30, 1986.

CONFIDENTIAL INFORMATION

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Sr. Operations Technician DATE 10/1/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

100705

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals.)

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2. NAME OF OPERATOR MERIDIAN OIL INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME --
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59013		7. UNIT AGREEMENT NAME --
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SENW (1850' FNL - 1255' FWL)		8. FARM OR LEASE NAME Havasu-Federal
14. PERMIT NO. 43-037-31278		9. WELL NO. 22-19
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5092' KB		10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19-38S-24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Spud Report</u>	<input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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Aztec, Rig #301, spudded well @ 3:00 PM September 30, 1986.

CONFIDENTIAL INFORMATION

RECEIVED
OCT 03 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Sr. Operations Technician DATE 10/1/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

111050

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-56186	
2. NAME OF OPERATOR Meridian Oil Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME N/A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SE NW (1850' FNL - 1255' FWL)		8. FARM OR LEASE NAME Havasu-Federal	
14. PERMIT NO. 43-037-31278		9. WELL NO. 22-19	
15. ELEVATIONS (Show whether OF, BT, OR, etc.) 5092' KB		10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19-38S-24E	
		12. COUNTY OR PARISH San Juan	13. STATE Utah

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FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Flare Gas <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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The captioned well is in the final stages of completion and is presently SI for a pressure build-up test. The three-day stabilized GOR test required by the state should be completed by November 15, 1986.

Meridian Oil hereby requests approval to flare gas in excess of 100 MCFD for a 60-day period extending until January 14, 1987. We intend to produce the well and perform a second build-up test to determine the extent of depletion and the need for infill development drilling.

RECEIVED
OCT 31 1986
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

M. Gadulis

TITLE Sr. Staff Engineer

DATE 10/30/86

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE

BY

11-10-86

*John R. By*Federal approval of this action
is required before commencing
operations.

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-56186
2. NAME OF OPERATOR MERIDIAN OIL INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SEW (1850' FNL - 1255' FWL)		8. FARM OR LEASE NAME Havasu-Federal
14. PERMIT NO. 43-037-31278		9. WELL NO. 22-19
15. ELEVATIONS (State whether of, RT, GR, etc.) 5092' KB		10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19-38S-24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Progress Report - October 86 <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

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NOTE: Oil leak discovered 10/31/86 in top hammer union of 3 section lubricator. Oil loss from leak contained on location. Witnessed by Rich McClure, BLM, Monticello, UT.

18. I hereby certify that the foregoing is true and correct

SIGNED <u>[Signature]</u>	TITLE <u>Sr. Operations Technician</u>	DATE <u>11/3/86</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

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2. NAME OF OPERATOR MERIDIAN OIL INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME N/A
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15. ELEVATIONS (Specify whether of, RT, OR, etc.) 5092' KB		10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)
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		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Progress Report - October 86 <input checked="" type="checkbox"/>	
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18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Sr. Operations Technician DATE 11/3/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

110702

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

Conf.

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT" for such proposals.)

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3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME N/A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SENW (1850' FNL - 1255' FWL)		8. FARM OR LEASE NAME Havasu-Federal	
14. PERMIT NO. 43-037-31278		9. WELL NO. 22-19	
15. ELEVATIONS (See also whether OF, RT, OR, etc.) 5092' KB		10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)	
12. COUNTY OR PARISH San Juan		13. STATE Utah	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19-38S-24E			

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SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
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SIGNED <u>[Signature]</u>	TITLE <u>Sr. Operations Technician</u>	DATE <u>11/3/86</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

November 10, 1986

Meridian Oil Inc.
P.O.Box 1855
Billings, MT 59103

Gentlemen:

RE: Request to Flare or Vent Associated Gas for Havasu-Federal
Well No. 22-19, Sec.19, T.38S, R.24E, San Juan County, Utah

The Division of Oil, Gas and Mining hereby grants approval of your sundry notice dated October 30, 1986, to flare associated gas from the referenced well. The approval is limited to the conditions stated in the notice, specifically that the associated gas may be flared or vented in excess of that allowed by Rule 311.3 of the Oil and Gas Conservation General Rules for the purposes of testing the well during the period extending until January 14, 1987.

Please note that this approval represents an administrative variance to Rule 311.3. The Division will inform the Board of Oil, Gas and Mining of the approval at the next regularly scheduled meeting to be held on December 4, 1986, during the informal Briefing Session. No Board action will be required at this time. Any additional request for flaring will require concurrence or approval of the Board.

It is also necessary to comply with federal regulations and the federal lease requirements concerning oil and gas operations. Therefore, you are advised to contact the appropriate federal agency and ensure that they do not object to the proposed gas flaring.

Please contact this office again if you have any further questions.

Best regards,

Dianne R. Nielson
Director

cc: R. J. Firth
J. R. Baza
Well file

0258T-48

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5092' KB		10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19-38S-24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

RECEIVED
NOV 19 1986

DIVISION OF
OIL, GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <u>Flare Gas</u>	<input checked="" type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) _____	

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72 hr well test, flowed 5212 BO, 0 BW & 5070 MCFD, 30/64" choke. Avg FTP 580 psi, GOR 973:1.

Average - 1737 BOPD, 0 BWPD, 1690 MCFPD. Avg GOR 973:1.

Permission to produce the well and flare gas for a 60 day period is requested. Additional bottom hole pressure will be required to determine the extent of the reservoir after a draw down period...

CONFIDENTIAL INFORMATION

18. I hereby certify that the foregoing is true and correct

SIGNED W. A. Brace TITLE Production Superintendent DATE 11/13/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
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Form approved.
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3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59108		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SENW (1850' FNL - 1255' FWL)		8. FARM OR LEASE NAME Havasu-Federal
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		13. STATE Utah

RECEIVED
NOV 19 1986

DIVISION OF
OIL, GAS & MINING

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NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

Flare Gas

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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SIGNED

W. L. Brice

TITLE

Production Superintendent

DATE

11/13/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RECORD OF SHIPMENT OF CONFIDENTIAL INFORMATION

CONFIDENTIAL

FROM: C. L. Crawley

Name _____

Sr. Staff Geologist

Title

DATE: December 2, 1986

VIA: Mail

RE: All information pertains to the Havasu Federal #22-19, San Juan
Co., Utah, 19-38S-24E / API 43-037-31278

[illegible]

INSTRUCTIONS: Please acknowledge receipt promptly by signing and returning the copy.

RECEIVED BY: _____ DATE: _____

REMARKS : All information pertains to the Havasu Federal #22-19, San Juan
Co., Utah, 19-38S-24E / API 43-037-31278

RECORD OF SHIPMENT OF CONFIDENTIAL INFORMATION

MERIDIAN OIL

December 2, 1986

RECEIVED
DEC 05 1986

DIVISION OF
OIL, GAS & MINING

Utah Department of Natural Resources
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, UT 84114

Attn: Mr. Ron Firth

Gentlemen:

Enclosed for your records are logs and other pertinent information on the following Meridian Oil Inc. wells:


Havasu Federal 41-24
San Juan County, Utah
24-38S-23E
API # 43-037-31279

Havasu Federal 22-19
San Juan County, Utah
19-38S-24E
API # 43-037-31278

Navajo Federal 42-5
San Juan County, Utah
5-39S-25E
API # 43-037-31261

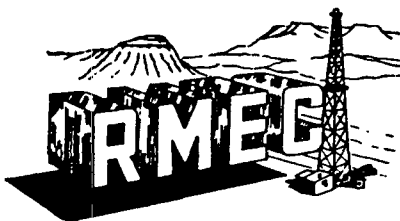
Please hold this information confidential. If any additional information is required, please do not hesitate to contact us.

Regards,


Polly Eggemeyer
Exploration Secretary

pse

cc: Well File
C. L. Crawley



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY MERIDIAN OIL

WELL NO. #22-19 HAVASU FEDERAL

LOCATION _____

ZONE OF INTEREST NO. 1

INTERVAL: From 5372 To 5384

DRILL RATE: Abv 2 1/2 Thru 1 1/2 Below 2

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before 65	14	900	330	152	---		
During 76	56	5000	2400	228	680		
After 88	6	500	198	76	---		

Type gas increase: Gradual ☒ Sharp ☐

Gas variation within zone: Steady ☐ Erratic ☒ Increasing ☐ Decreasing ☐

CARBIDE HOLE RATIO: GRAMS
READING X Min. in Peak = 6.9

Sensitivity: Poor ☐ Fair ☒ Good ☐

FLUO: Mineral ☐ Even ☐ Spotty ☐
None ☒ % in total sample _____
Poor ☐
Fair ☐ % in show lithology _____
Good ☐ COLOR: _____

CUT: None ☒ Streaming
Poor ☐ Slow ☐
Fair ☐ Mod ☐
Good ☐ Fast ☐
COLOR: _____

STAIN: None ☐ Poor ☒ Fair ☐ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☒ Lt. ☐ Dk. ☒ BRN

POROSITY: Poor ☐ Fair ☐ Good ☐ Kind _____

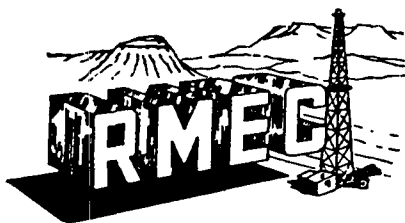
LITHOLOGY _____

SAMPLE QUALITY poor drlg w/water

NOTIFIED _____ @ _____ HRS. DATE: _____

REMARKS _____

ZONE DESCRIBED BY _____



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY MERIDIAN OIL

WELL NO. #22-19 HAVASU FEDERAL

LOCATION _____

ZONE OF INTEREST NO. 2

INTERVAL: From 5408 To 5425

DRILL RATE: Abv 2 1/2 Thru 1 1/2 Below 2 1/2--3

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before 06	18	300	132	76			
During	110	4500	2640	1634	816		
After 30	26	900	594	152	120		

Type gas increase: Gradual ☒ Sharp ☐

Gas variation within zone: Steady ☐ Erratic ☒ Increasing ☒ Decreasing ☐

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = 6.9

Sensitivity: Poor ☐ Fair ☒ Good ☐

FLUO: Mineral ☐ Even ☐ Spotty ☐
None ☒ % in total sample _____
Poor ☐
Fair ☐ % in show lithology _____
Good ☐ COLOR: _____

CUT: None ☒ Streaming
Poor ☐ Slow ☐
Fair ☐ Mod ☐
Good ☐ Fast ☐

COLOR: _____

STAIN: None ☒ Poor ☐ Fair ☐ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☐ Lt. ☐ Dk. ☐

POROSITY: Poor ☐ Fair ☐ Good ☐ Kind _____

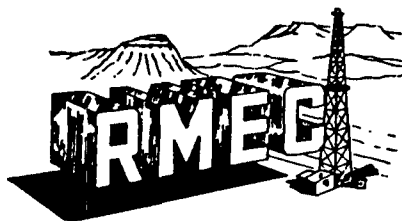
LITHOLOGY _____

SAMPLE QUALITY _____

NOTIFIED _____ @ _____ HRS. DATE: _____

REMARKS _____

ZONE DESCRIBED BY _____



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY MERIDIAN OIL

WELL NO. #22-19 HAVASU FEDERAL

LOCATION _____

ZONE OF INTEREST NO. 3

INTERVAL: From 5683 To 5711

DRILL RATE: Abv 4 m/f Thru 1.5 m/f Below n/a

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before 5684	20U	3476ppm (66%)	675ppm (13%)	424ppm (8%)	91ppm (1.7%)	625ppm (11.8%)	
During 5683	24U	25636ppm (58%)	9250ppm (21%)	5757ppm (13%)	511ppm (1%)	2500ppm (6%)	
After 5712	60U	4171ppm (52%)	2500ppm (31%)	606ppm (7.5%)	183ppm (2.5%)	625ppm (7.7%)	

Type gas increase: Gradual ☐ Sharp ☒

Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = n/a

Sensitivity: Poor ☐ Fair ☐ Good ☐

FLUO: Mineral ☐ Even ☒ Spotty ☐
None ☐ % in total sample _____
Poor ☐
Fair ☐ % in show lithology 80%
Good ☒ COLOR: light green yellow

CUT: None ☐ Streaming
Poor ☐ Slow ☐
Fair ☐ Mod ☐
Good ☒ Fast ☒
COLOR: milky yellow green

STAIN: None ☐ Poor ☐ Fair ☐ Good ☒ Live ☒ Dead ☐ Residue ☐ Even ☒ Spotty ☐ Lt. ☐ Dk. ☐

POROSITY: Poor ☐ Fair ☒ Good ☒ Kind intercrystalline-intergranular to pinpoint vugular

LITHOLOGY DOL lmt mbrn micxl fxl to fgran frm-hd cln mtx o sat fos deb

SAMPLE QUALITY _____

NOTIFIED Cindy Crawley @ 3:30p.m. HRS. DATE: _____

REMARKS _____

ZONE DESCRIBED BY J. H. Pudliner

SAMPLE DESCRIPTIONS

TEN FOOT LAGGED SAMPLES CAUGHT BY LOGGERS.

* - INDICATES SHOW INTERVAL

INTERVAL	%	DESCRIPTION
5600-5610	90% 10%	LS lt-mgy tan mic-sl crpxl hd tt ø fr cln mtx NSFOC SH blk dk gy plty soty calc carb frm
5610-5620	90% 10%	SH aa LS aa
5620-5630	75% 25%	SH aa bcmg mbrn mot gy LS aa
5630-5640	75% 25%	LS tan lt gy micxl vfxl hd ttø sl arg NSFOC SH aa
5640-5650	60% 40%	SH m-dk gy blk rthy calc-lmy hd LS aa
5650-5670	70% 30%	SH m-dk gy blk rthy-sbwxy lmy in part frm LS aa swy
5670-5680	75% 25%	LS mgy brn tan micxl vfxl hd tt ø v cvg NSFOC SH aa POS ANHY MUD IS FLOCKULATING
5683-5692*	100%	UPPER ISMAY DOL lmy mbrn gy micxl milsuc frm cln mtx g intgran-g interconnecting pp vug ø pet od g abnt (80%) even o stn o sat abnt (80%) bri gn yel even hydc flor vg flash bcmg g mky bl stmg cut g rich yel gn halo
5692-5712*	100%	LS tan crm ltgy micxl frm cln mtx fr intxl ø chky sl fos mnr lt brn sp o stn mod bri yel lt bl sp hydc flor p mky yel stmg cut
5712-5780	80% 20%	VPSL ABNT CVGS SH orng red m gy prob cvgs DOL & LS aa
5780-5790	60% 40%	SH red orng tr blk rthy sdy in part frm LS crm tan gy micyl vfxl frm fr cln mtx p intxl ø chky NSFOC
5790-5810	40% 30% 30%	CVGS LS aa DOL bff lt gy micxl micsuc hd cln mtx NSFOC
5810-5820	100%	LS lt gy bff micxl vfxl hd p-fr intxl ø cln mtx mnr sp lt brn ostn mnr sp bri yel hyde flor p fnt yel diffus cut wk fnt yel halo

MERIDIAN OIL INC.
#22-19 HAVASU FEDERAL
SAMPLE DESCRIPTIONS CONTINUED

5820-5830	100%	LS aa
	TR	ANHY wh crm fgran
	TR	SH blk plty calc frm
		HOVENWEEP "A" SHALE
5830-5840	30%	SH blk plty soty calc-dol frm-hd
	70%	LS aa
5840-5850	80%	SH aa POOR SAMPLE
	20%	LS aa
5850-5860		VERY POOR SAMPLE ABNT CVGS
		Pos ANHY
5860-5870	10%	VERY POOR SAMPLE ABNT CVGS 80%
		ANHY wh vfgran-amorph fri
		LS & DOL aa
5870-5880		POOR SAMPLE
	50%	DOL mbrn micxl micsuc he ttø snhy NSFOC
	50%	CVGS
5880-5890	80%	DOL mbrn gy aa
	20%	CVGS
5890-5900	90%	LS lt gy bff micxl vf-fxl he p intxl ø dol NSFOC
	10%	DOL aa
		GOTHIC
5900-5920	90%	SH blk dkgy brn blk-pty soty calc
	10%	LS aa
5920-5940	60%	SH aa
	40%	CVGS
		DESERT CREEK
5940-5950	70%	SH lt gy gn blk blk-pty mrly-lmy frm
	30%	CVGS
	TR	CHT tan
5950-5970	30%	SH aa
	70%	CVGS
5970-5980	60%	LS m-ltgy micxl vfxl frm ttø varg-mrly NSFOC
	40%	SH aa
5980-5990	40%	LS aa tr asph resd
	40%	DOL lt gy micxl micsuc hd ttø arg slpyr
	20%	CVGS
5990-6000	60%	DOL lt gy tan micxl micsuc hd ttø arg bivel anhy
	10%	ANHY wh gran-amorph
	30%	LS aa
6000-6010	70%	LS ltgy tan micxl vfxl frm ttø arg biocl chky
	30%	DOL aa

MERIDIAN OIL INC.
#22-19 HAVASU FEDERAL
SAMPLE DESCRIPTIONS CONTINUED

6010-6020	80%	LS aa bcmy mgy
	20%	SH mgy blk rthy slty mrly-lmy frm
6020-6040	60%	CHIMNEY ROCK
	40%	SH blk blk soty calc hd
		LS lt brn gy micxl vfxl-gry hd ttø arg
6040-6060	80%	LS dk-sl mgy brn micxl vfgran hd ttø arg anhy dol
	20%	SH aa
6060-6074	30%	ANHY wh crm amorph sft
	70%	DOL & SH aa
		PROB SAH

MERIDIAN OIL INC.
#22-19 HAVASU FEDERAL

FORMATION TOPS

<u>FORMATION</u>	<u>MEASURED DEPTH</u>	<u>ESTIMATED SAMPLE TOP</u>	<u>E-LOG TOP</u>	<u>SEA LEVEL</u>
HONAKER TRAIL	4766	4710	4711	+381
UPPER ISMAY	5698	5668	5652	-560
TOP OF Ø	5768	5683	5676	-584
"A" SHALE	5830	5835	5836	-744
LOWER ISMAY		5844	5844	-752
TOP Ø		5879	5874	-782
GOTHIC SHALE		5892	5898	-806
DESERT CREEK		5830	5933	-841
LOWER Ø		5995	5994	-902
CHIMNEY ROCK		6018	6014	-922
AKAH		6042	6038	-946
SALT		6071	6073	-981
TOTAL DEPTH	6200	6074	6073	-981

GEOLOGIC SUMMARY

Geologic and mudlogging services were provided by Rocky Mountain Geo-Engineering Company. These services commenced on October 2nd, 1986 at 3300' in the Cutler group of Permian age. A completed depth of 6074' was reached on October 11th, 1986 in the Pennsylvanian aged Akah cycle of the Paradox formation.

CUTLER GROUP (3300-4710')

The Cutler group consists predominantly of red to orange silty shales that are interbedded with sandstone and minor amounts of limestone. The sandstones were typified by transparency, light gray, white to tan, fine to very fine grained, subround, wellsorted, generally clean and moderately porous. The limestones are red, orange, pink, cryptocrystalline, silty and firm. No hydrocarbon or sample shows occurred in the Cutler group.

HERMOSA GROUP

HONAKER TRAIL FORMATION (4710-5652')

The Honaker Trail is composed primarily of limestone interbedded with shales, siltstones, and lenses of sandstone which occasionally have gas shows associated with increases in penetration rate. The limestones are light to medium gray, white to buff, micro to cryptocrystalline, clean to argillaceous and generally tight. The shales are medium to light gray mottled brown, blocky, earthy, silty, calcareous in part and firm. The siltstones appear gray brown, calcareous and friable to firm. Gas associated with the Honaker Trail formation was observed in the sand lenses from 5370' through 5480'. The sands are light gray to tan, fine to very fine grained, subangular, well sorted, poorly to moderately calcareous and displays poor to fair intergranular porosity. No hydrocarbon staining, fluorescence, or cut was observed in the sands.

PARADOX FORMATION

I. UPPER ISMAY CYCLE (5652-5836')

The Upper Ismay Cycle consists of limestone and dolomite. The limestones are tan to cream, microcrystalline, firm, clean, chalky in part and display a fair to poor intercrystalline porosity. The dolomite is medium brown (oil saturated), microcrystalline, microsucrosic, firm, clean, and has good intergranular porosity. Good staining, fluorescence and cut were observed in the upper interval. For more detailed descriptions of the shows, see the lithologic descriptions of the interval 5880-5712' of this report. Upon drilling the upper section of the Ismay Cycle, hydrocarbon shows occurred from 5680-5712', indicating substantial hydrocarbon recovery potential. After analysis of samples and gas detection equipment, a successful drill stem test was conducted from 5683-5712'. Gas and oil flowed to the surface after 12 and 32 minutes respectively. Due to the poor sample quality, the remaining interval of the upper Ismay was not well represented in samples from 5712-5844'.

II. HOVENWEEP "A" SHALE (5836-5844')

The Upper and Lower Ismay cycles are separated by the Hovenweep shale. The "A" shale is black in color, sooty in luster, platy, calcareous to dolitic and firm to hard. A subtle gas increase occurred in the shale.

III. LOWER ISMAY (5844-5898')

The Lower Ismay consists of dolomite, limestone and anhydrite. The anhydrites are white amorphous and soft. The limestones are cream, tan microcrystalline, very fine crystalline, hard, tight and chalky in part. The dolomite is medium brown, microcrystalline, microsucrosic, hard and tight. Gas increases were observed from 5880-5892', however, due to poor sample quality,

no stain, fluorescence or cut was observed.

IV. GOTHIC SHALE (5898-5933')

The shale is black to dark gray brown, blocky to platy, sooty, calcareous and firm. A gradual increase in all gas occurred during the drilling of the Gothic shale.

V. DESERT CREEK CYCLE (5933-6014')

The Desert Creek is composed of limestone, dolomite, and anhydrite. The anhydrite is white, granular, amorphous and firm. The dolomite is light gray, tan, microcrystalline, microcrystalline, hard, anhydritic and tight. The limestone is light to medium gray, microcrystalline, hard, tight and argillaceous. No sample shows were observed in the Desert Creek, however, relatively high background gas occurred through the interval.

VI. CHIMNEY ROCK SHALE (6014-6038')

The Chimney Rock Shale is medium gray, black, blocky, sooty, calcareous to marly, silty in part and hard. An increase in all gas occurred in the interval.

VII. AKAH CYCLE (6038-T.D.)

The Akah is composed of anhydritic limestone and anhydrite. The anhydrites are white to cream, amorphous, soft to firm. The limestone is dark to light gray brown becoming tan, microcrystalline, very fine granular, hard, tight, argillaceous, anhydritic and dolomitic.

Due to overall poor sample quality, proper sample evaluation of the lower portion of the Upper Ismay, Lower Ismay, and Desert Creek Cycles of the Paradox Formation was difficult, so provisions were made to adjust to the circumstances. Caution is advised when evaluating or comparing mud log lithology to "E" Log lithologies.

FIELD REPORT

JS-537

BEST COPY
AVAILABLE

TYPE OF SERVICE

$$mFeOH$$

DATE

73-8-01

DISTRICT

4340

WELL OWNER: *MERIDIAN*

REPORTS ADDRESS:

WELL NAME & NO.: HAVASU 22-19

LOCATION: SEC 14 T 38 S R 24 E

FIELD:

COUNTY: SAN JUAN

LEASE:

STATE: UT

☐ ONSHORE ☐ OFFSHORE ☐ INLAND WATERS

WILDCAT

DEVELOPMENT

PRODUCTION

TEST NO. 1 TEST INTERVAL FROM 5683

FT TO 5712

FT- 30

FT

SURFACE DATA

[illegible]

EQUIPMENT SEQUENCE

COMPONENTS	SERIAL#	OD	ID	LENGTH	DEPTH
FLoor man fold					
Flowerhead					
Drill Pipe	43	5.24	4.62	1.70	
TIW VALVE	678	5.24	4.62	1.70	
Drill Pipe	43	5.24	4.62	1.70	
TIW VALVE	678	5.24	4.62	1.70	
Drill pipe	43	5.24	4.62	1.70	
Drill collars				477	
Reverse circ Sub Pump	6	3.14	2.50	1.11	
Drill collars				60	
Reverse circ SUB PUM	6	3.14	2.50	1.11	
Drill collars				60	
X OVER	3-11	5.24	4.62	1.70	
PIPE	3	1	1	1.70	
EXPASS	3	1.11	1.11	2.90	
Reamer	474	1.11	1.11	5.10	36.11
IRMS	474	1.11	1.11	1.30	
Safety Joint	3-11	5.24	4.62	1.70	
Explosive Seal	3	1.11	1.11	1.70	
HAOSUR	1	1.11	1.11	1.70	
HAOSUR	1	1.11	1.11	1.70	
Wart	3-11	2	2	5.0	
Reamer	474	1.11	1.11	5.10	36.11
Reamer & Sub Pump	474	2	2	14.70	36.11

CUSHION TYPE	LENGTH	AMOUNT	SURFACE PRESS	TEST TOOL PRESS	BOT. CHOKE SIZE
+	6	0	6	4	15/16

WELL BORE DATA

FORMATION TESTED <i>UPPER ISMAY</i>			
NET PRODUCTIVE INTERVAL	<i>30</i>	ft	EST. POROSITY <i>20</i> %
ELEVATION	<i>5092</i>	ft	DEPTH MEASURED FROM <i>KR</i>
TOTAL MEASURED DEPTH	<i>5712</i>	ft	TRUE VERT DEPTH ft
O H SIZE	<i>7 7/8</i>	in	
CASING SIZE		in	CASING WT. #/ft
LINER SIZE		in	LINER WT. #/ft
PERF INTERVAL FROM		ft	TO ft = ft
SHOT DENSITY	spt	PERF DIAMETER	in
TOTAL SHOTS	OVER/UNDER BALANCE PRESS		psi

SAMPLER DATA

RECOVERY	RESISTIVITY	CHL CONTENT
1573 CU. FT. GAS	RECOVERED WATER 4 @ °F	PPM
1570 C.C. OIL	RECOVERED MUD @ °F	
1570 C.C. WATER	REC. MUD FILTRATE @ °F	PPM
C.C. MUD	PIT MUD 2.2 @ 60 °F	
GRAVITY °API °F	PIT MUD FILTRATE 2.1 @ 60 °F	3.000 PPM
G O R CU. FT/BBL.	SAMPLER PRESSURE 1150	

INSTRUMENT DATA

INSTRUMENT NO.	1057	5036		
CAPACITY	1000	1000		
DEPTH	1000	1000		
INSIDE-OUTSIDE	1000	1000		
CLOCK CAP	1000	1000		
TEMPERATURE °F	1000	1000		
I. HYD. P.S.I.G.		1000		
I. FLOW P.S.I.G.		1000		
I.S.I P.S.I.G.		1000		
2nd FLOW P.S.I.G.				
2nd S.I. P.S.I.G.				
F. FLOW P.S.I.G.				
F.S.I. P.S.I.G.				
F. HYD. P.S.I.G.				

MUD DATA

MUD TYPE	L.S. N D	MUD WT	2.9	#/gal
VISCOSITY	58	WATER LOSS	13.9	CC
RESISTIVITY: OF MUD	2.2	@ 65	°F	
	: OF FILTRATE	2.1	@ 67	°F
CHORIDES	3.000	PPM	NITRATES	PPM
H ₂ S DURING TEST			PPM	

REMARKS:

[illegible]

RECOVERY DESCRIPTION	FEET	BBLS	% OIL	% WATER	% CUSHION	% MUD	% OTHER	API GRAV	RESIST	CHL PPM
								@ °F	@ °F	
								@ °F	@ °F	
								@ °F	@ °F	
								@ °F	@ °F	
								@ °F	@ °F	
								@ °F	@ °F	
								@ °F	@ °F	
Reversed cat		25	100					40.63	@ °F	
								@ °F	@ °F	
								@ °F	@ °F	
								@ °F	@ °F	
								@ °F	@ °F	

REVERSED OUT: TIME STARTED

TIME FINISHED

PUMP PRESSURE 205

PSIG

SERVICE ORDER NUMBER:

FLOPETROL JOHNSTON ENGINEER/TECHNICIAN (PRINT)

CONFIDENTIAL

MERIDIAN OIL INC.
#22-19 HAVASU FEDERAL
SECTION 19, T38S, R24E
SAN JUAN COUNTY, UTAH

GEOLOGY REPORT
BY
JOHN H. PUDLINER
ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL SUMMARY

OPERATOR: MERIDIAN OIL INC.
WELL NAME: #22-19 HAVASU FEDERAL
LOCATION: SECTION 19, T38S, R24E
FOOTAGE: 1850' FNL, 1255' FWL
COUNTY: SAN JUAN
STATE: NEW MEXICO
ELEVATION: 5092' KB, 5080' GL
SPUD DATE: SEPTEMBER 30th, 1986
COMPLETION DATE: OCTOBER 10, 1986
WELLSITE GEOLOGY: ROCKY MOUNTAIN GEO-ENGINEERING CO.
GEOLOGIST: ART CURTIS
DRILLING CONTRACTOR: AZTEC WELL SERVICE, RIG #301
TOOL PUSHER: CHUCK HESSER
CASING: 8 5/8" to 1704', 5 1/2" to T.D.
DRILLING MUD COMPANY: MAGCOBAR
MUD ENGINEER: PHIL MC CLURE
ELECTRIC LOGGING: GEARHART
TYPES OF LOGS RUN: GR-DLL-MSL; SC TO T.D., GR-CNL-FDC; SC TO T.D.
TOTAL DEPTH: 6074' DRILLER, 6073' LOGGER
STATUS: PREPARE FOR COMPLETION OF UPPER ISMAY
DRILL STEM COMPANY: SCHLUMBERGER
DST ENGINEER: CLIFFORD RICHARDS

BIT RECORD

WELL NAME: #22-19 HAVASU FEDERAL ELEVATION: _____

CO. NAME: MERIDIAN OIL SECTION: SEC.19, T38S, R25E

CONTRACTOR: AZTEC RIG# 301 CO. & STATE: SAN JUAN, UTAH

SPUD DATE: 9-30-86 T.D. DATE: _____

[illegible]

WELL NAME #22-19 HAVASU FEDERAL

[illegible]

DRILL STEM TEST REPORT

DST # 1

Date 10-09-86

Testing Co. SCHLUMBERGER

WELL NAME: #22-19 HAVASU FEDERAL

Formation: UPPER ISMAY Interval: 5683-5712' Wtr. Cushion NONE

Hole Size 7 7/8" Packer Size 7" Drl. Pipe Size 4 1/2" Bbls/Ft NO RECOVERY

Drl. Collar Size Bbls/Ft Drlg. Contractor AZTEC WELL SERVICE

Mud Filtrate: Ppm Nitrate Ppm Chlorides 3000

	Minutes Duration		
Preflow	<u>2</u>	Gas to Surf. <u>14</u> Min; Rate <u>289</u> psi	
Initial Shutin	<u>18</u>	Fluid to Surf. <u>12</u> Min; Rate <u>320</u> psi	
Flow Period	<u>152</u>	Mud <u> </u> Min; Wtr <u> </u> Min; Oil <u>32</u> Min	
Final Shutin	<u> </u>		

Test Description: Due to gas and oil to surface in DST #1, it was not necessary to run full times during the test.

SEE ATTACHED FIELD REPORT

Orifice Plate Size	Temp.	Minutes from V.O.	Pressure	Rate
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Pressure Records (Field Readings) -- Bomb Depth 5712 Bottom Hole Temp. 63 °

Pre-Flow Final Flow - OIL & GAS TO SURFACE

IHP 2738 IFP 1129 FFP 1632 ISIP 2189 ; IFP FFP FSIP FHP 2736

Sampler Capacity 4700 Cc's; Sampler Pressure 1100 Rstv 42 Temp 62 °

Cu Ft Gas 2.95 Cc's Oil 1590 Cc's Water Cc's (Other)

Sampler Recovery (Water): Ppm Nitrate Ppm Chlorides

Pipe Recovery: REVERSED OUT

Problems:

Remarks:

Agent of Operator CLIFFORD RICHARDS

REPORT NO.

08723F

PAGE NO. 1

TEST DATE:

09-OCT-86

WELL PERFORMANCE

TESTING™ REPORT

A Production System Analysis (NODAL™)
Based On Model Verified™ Interpretation

FLOPETROL JOHNSTON

Schlumberger

CONFIDENTIAL

Company: MERIDIAN OIL, INC.

Well: HAVASU #22-19

TEST IDENTIFICATION

Test Type MFE OH DST
Test No. 1
Formation UPPER ISMAY
Test Interval (ft) 5683 - 5712
Reference Depth KELLY BUSHING

WELL LOCATION

Field
County SAN JUAN
State UTAH
Sec/Twn/Rng S19T38SR24E
Elevation (ft) 5092

HOLE CONDITIONS

Total Depth (MD/TUD) (ft) 5712 / 5712
Hole Size (in) 7 7/8
Casing/Liner I.D. (in)
Perf'd Interval/Net Pay (ft).. -- / 30
Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type LSND
Mud Weight (lb/gal) 8.9
Mud Resistivity (ohm.m) 2.2 @ 68 DEG. F
Filtrate Resistivity (ohm.m).. 2.1 @ 68 DEG. F
Filtrate Chlorides (ppm) 3000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 2723
Gas Cushion Type NONE
Surface Pressure (psi) --
Liquid Cushion Type NONE
Cushion Length (ft) --

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 5191 / 3.8
Collar Length (ft)/I.D. (in).. 614 / 2.25
Packer Depths (ft) 5683
Bottomhole Choke Size (in) ... 15/16
Gauge Depth (ft)/Type 5689/MECHANICAL

NET PIPE RECOVERY

Volume	Fluid Type	Properties
46.38 BBLS.	OIL	41.8 DEG. API @ 60 D
		BASED ON FINAL FLOW
		PRESSURE

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
3.84 SCF	GAS	CORRECTED TO PWF
1590 CC	OIL	41.8 DEG. API @ 60
Pressure: 1100 GOR: 384 GLR: 384		

INTERPRETATION RESULTS

Model of Behavior PRESR. BOUNDARY
Fluid Type Used for Analysis . OIL
Reservoir Pressure (psi) 2094
Transmissibility (md.ft/cp) .. 11843.5
Effective Permeability (md) .. 255.0
Skin Factor/Damage Ratio 3.82
Storativity Ratio
Interporosity Flow Coeff.
Distance to an Anomaly (ft) ..
Radius of Investigation (ft).. 236
Potentiometric Surface (ft) ..

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) 41.8
Basic Solids (%)
Gas Gravity 0.700
Water Cut (%) 0
Viscosity (cp) 0.646
Total Compressibility (1/psi). 1.27E-05
Porosity (%) 20
Reservoir Temperature (F) 130
Form.Vol.Factor (bbl/STB) 1.19

PRODUCTION RATE DURING TEST: 3234 BOPD QLAST

COMMENTS:

THE SHUT-IN PRESSURE BUILD-UP DATA WAS ANALYZED USING HORNER METHOD TO DETERMINE RESERVOIR PARAMETERS OF Kh/μ , P^* , AND SKIN. IT IS BELIEVED THAT THERE IS A CONSTANT PRESSURE BOUNDARY PRESENT; SEE THE ANALYSIS PLOTS IN THE APPENDIX OF THIS REPORT. SKIN SENSITIVITY ANALYSIS HAS BEEN PERFORMED TO FORECAST THE ZONE'S FUTURE PRODUCTION POTENTIAL WITH VARIOUS VALUES OF SKIN, FROM +5 TO -3; THESE PLOTS FOLLOW BEGINNING ON THE NEXT PAGE.

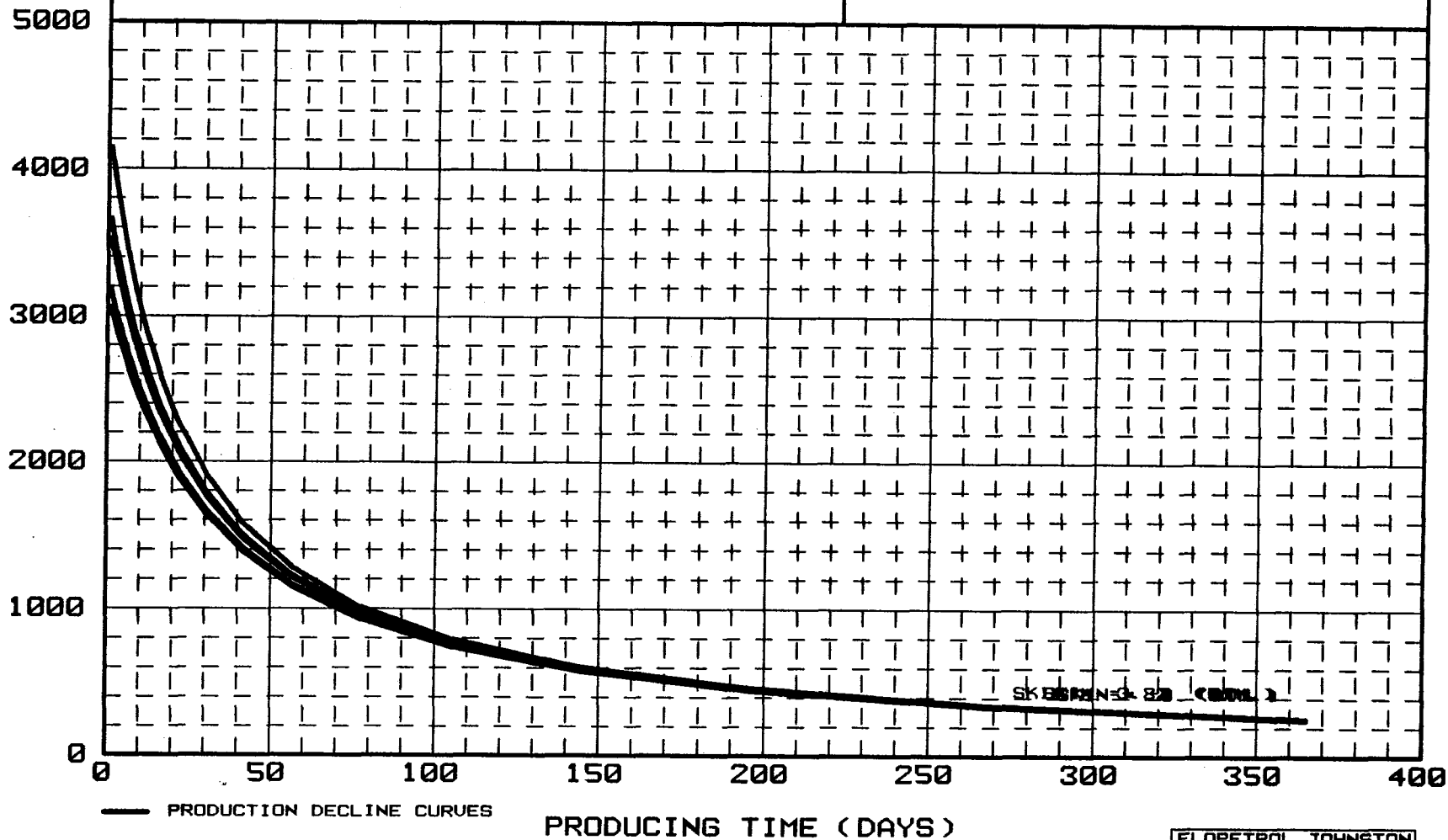
MERIDIAN OIL, INC.

HAVASU 22-19 - UPPER ISMAY FORMATION

NO. 2

THESE ARE THE PRODUCTION DECLINE CURVES FOR VARIOUS VALUES OF SKIN, FROM +5 TO -3, WITH THE WELL FLOWING ON 2.441 IN. I.D. TUBING AT 50 PSI WELLHEAD PRESSURE.

FLOWRATE (BBL/DAY) [OIL]



— PRODUCTION DECLINE CURVES

PRODUCING TIME (DAYS)

FLOPETROL JOHNSTON
SCHLUMBERGER

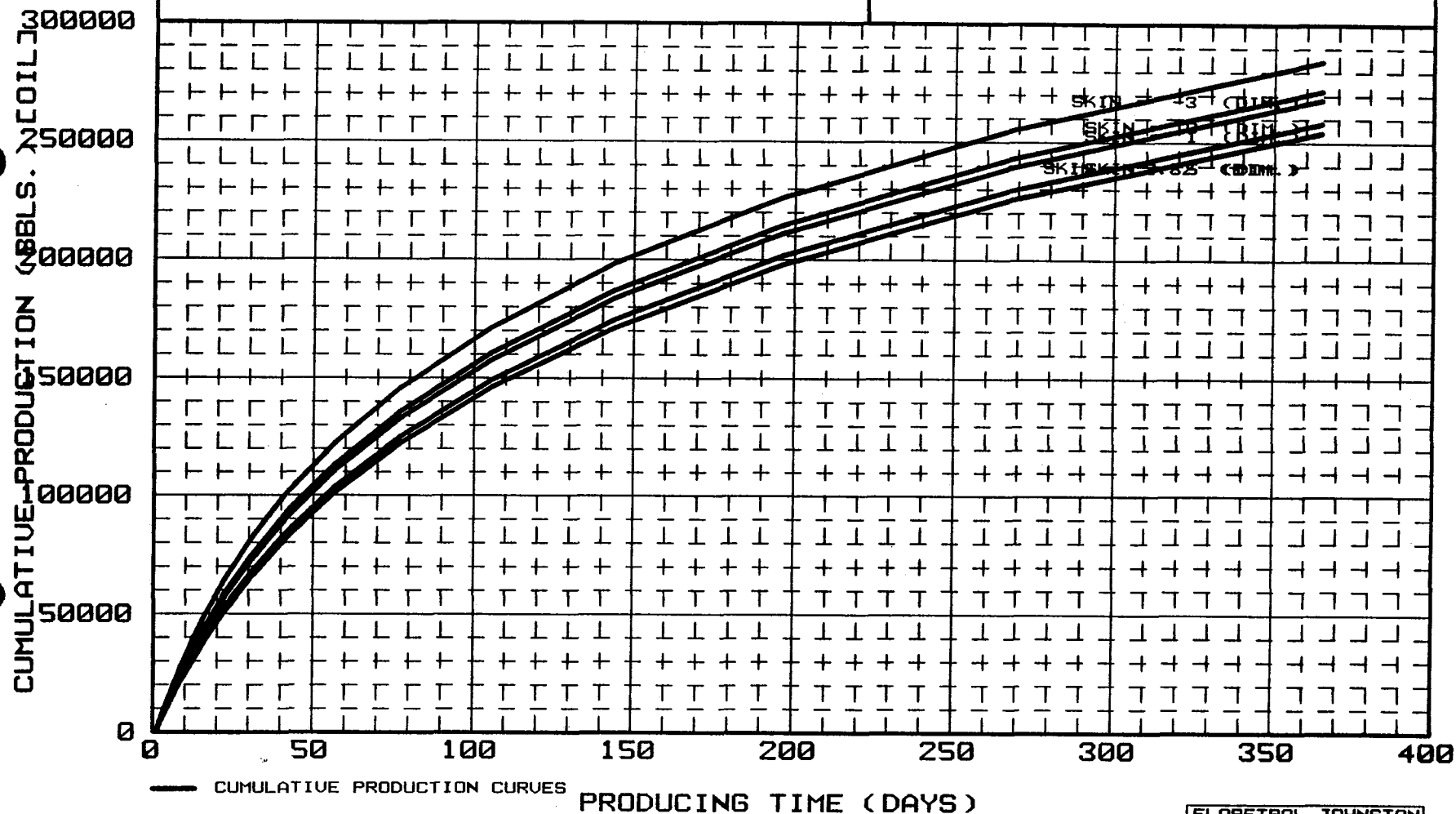
CONFIDENTIAL

MERIDIAN OIL, INC.

HAVASU 22-19 - UPPER ISMAY FORMATION

NO. 3

THESE ARE THE CUMULATIVE PRODUCTION CURVES FOR VARIOUS VALUES OF SKIN, FROM +5 TO -3, WITH THE WELL FLOWING ON 2.441 IN. I.D. TUBING AT 50 PSI WELLHEAD PRESSURE.



FLOPETROL JOHNSTON
SCHLUMBERGER

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REPORT NO.
08723F

PAGE NO. 4

SEQUENCE OF EVENTS

FLOPETROL JOHNSTON

Schlumberger

EVENT NO.	DATE	TIME (HR:MIN)	DESCRIPTION	ELAPSED TIME (MINS)	BHP (PSIA)	WHP (PSIG)
1	10-9-86	0055	SET PACKER	-1.00	2723	--
2		0058	OPENED TOOL - 1/8" CHOKE	0.00	1110	BTM. BUCKT
		0103				150.0
		0108				290.0
3		0110	CLOSED FOR FINAL SHUT-IN	12.86	1635	320.0
		0112	GAS TO SURFACE			289.0
		0130	OIL TO SURFACE			
4		0345	FINISHED SHUT-IN	167.94	2086	--
5		0355	PULLED PACKER LOOSE	177.09	2696	--
		0630	REVERSED OUT RECOVERY			

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 08723F

COMPANY : MERIDIAN OIL

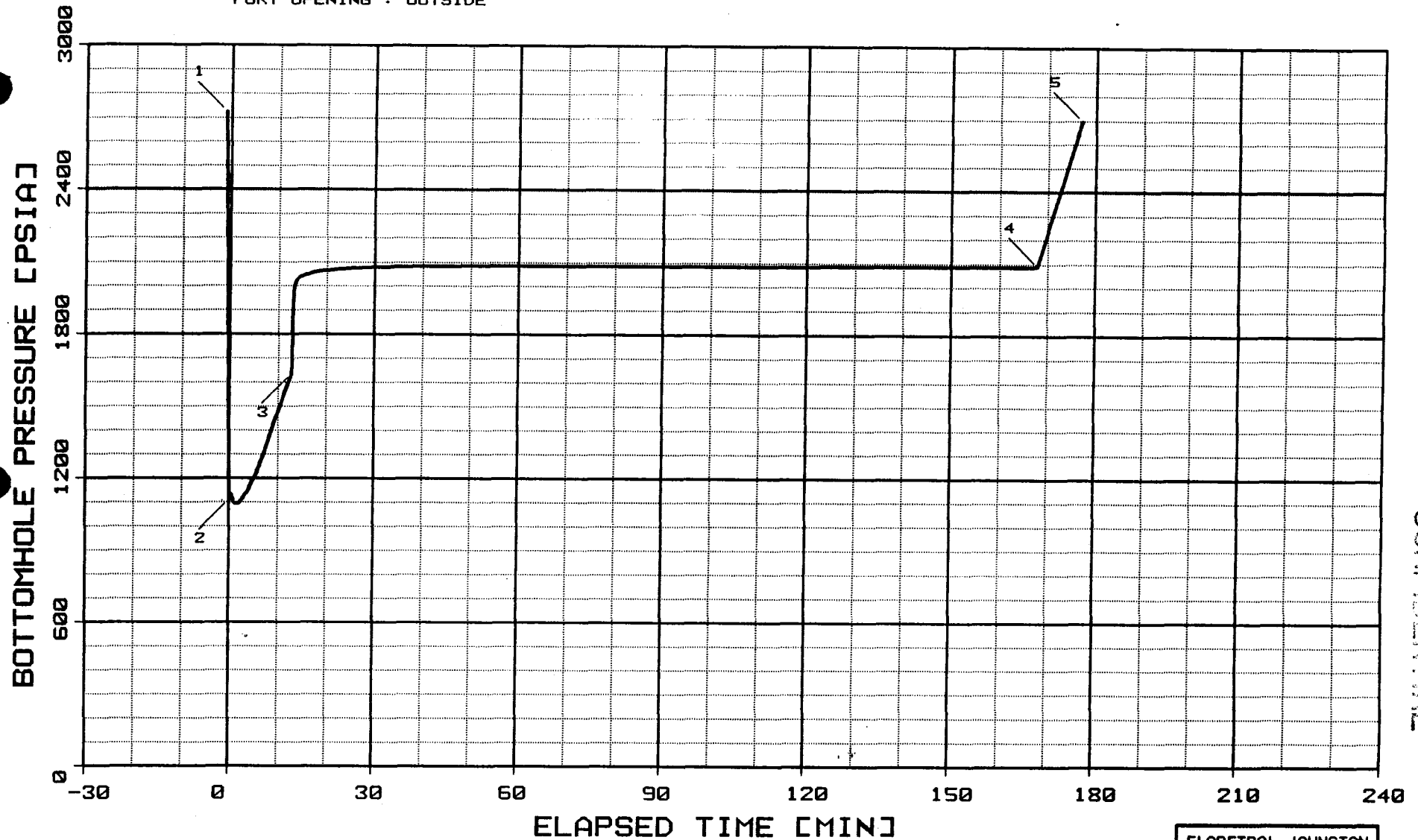
INSTRUMENT NO. J 1238

WELL : HAVASU 22-19

DEPTH : 5689 FT

CAPACITY : 4700 PSI

PORT OPENING : OUTSIDE



CONFIDENTIAL

FLOPETROL JOHNSTON

Schlumberger

CONFIDENTIAL

 * WELL TEST DATA PRINTOUT *

FIELD REPORT # : 08723F

COMPANY : MERIDIAN OIL
WELL : HAVASU 22-19INSTRUMENT # : J 1238
CAPACITY [PSI] : 4700.
DEPTH [FT] : 5689.0
PORT OPENING : OUTSIDE
TEMPERATURE [DEG F] : 130.0

LABEL POINT INFORMATION

#	TIME OF DAY	DATE	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
***	*****	*****	*****	*****	*****
1	0:57: 0	9-OC	HYDROSTATIC MUD	-1.00	2723
2	0:58: 0	9-OC	START FLOW	0.00	1110
3	1:10:52	9-OC	END FLOW & START SHUT-IN	12.86	1635
4	3:45:56	9-OC	END SHUT-IN	167.94	2086
5	3:55: 5	9-OC	HYDROSTATIC MUD	177.09	2696

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
*****	*****	*****	*****	*****	*****
1	0.00	12.86	12.86	1110	1635

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	EFFECTIVE PRODUCING TIME, MIN
*****	*****	*****	*****	*****	*****	*****	*****
1	12.86	167.94	155.08	1635	2086	1635	20.65

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
0:58: 0	9-0C	0.00	0.00	1110
1: 3: 0	9-0C	5.00	5.00	1195
1: 8: 0	9-0C	10.00	10.00	1471
1:10:52	9-0C	12.86	12.86	1635

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 1635
 PRODUCING TIME [MIN] = 20.65

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
1:10:52	9-0C	12.86	0.00	1635	0	
1:11:52	9-0C	13.86	1.00	2024	389	1.335
1:12:52	9-0C	14.86	2.00	2038	404	1.054
1:13:52	9-0C	15.86	3.00	2046	411	0.897
1:14:52	9-0C	16.86	4.00	2052	417	0.790
1:15:52	9-0C	17.86	5.00	2057	422	0.710
1:16:52	9-0C	18.86	6.00	2060	425	0.648
1:17:52	9-0C	19.86	7.00	2063	428	0.597
1:18:52	9-0C	20.86	8.00	2065	430	0.554
1:19:52	9-0C	21.86	9.00	2067	432	0.518
1:20:52	9-0C	22.86	10.00	2069	434	0.486
1:22:52	9-0C	24.86	12.00	2071	436	0.435
1:24:52	9-0C	26.86	14.00	2073	438	0.394
1:26:52	9-0C	28.86	16.00	2075	440	0.360
1:28:52	9-0C	30.86	18.00	2077	442	0.332
1:30:52	9-0C	32.86	20.00	2078	443	0.308
1:32:52	9-0C	34.86	22.00	2079	444	0.287
1:34:52	9-0C	36.86	24.00	2079	444	0.270
1:36:52	9-0C	38.86	26.00	2080	445	0.254
1:38:52	9-0C	40.86	28.00	2080	445	0.240
1:40:52	9-0C	42.86	30.00	2081	446	0.227
1:45:52	9-0C	47.86	35.00	2082	447	0.201
1:50:52	9-0C	52.86	40.00	2082	448	0.181
1:55:52	9-0C	57.86	45.00	2083	448	0.164
2: 0:52	9-0C	62.86	50.00	2083	448	0.150
2: 5:52	9-0C	67.86	55.00	2083	448	0.138
2:10:52	9-0C	72.86	60.00	2083	448	0.128
2:15:52	9-0C	77.86	65.00	2083	448	0.120
2:20:52	9-0C	82.86	70.00	2083	448	0.112
2:25:52	9-0C	87.86	75.00	2083	448	0.106
2:30:52	9-0C	92.86	80.00	2083	448	0.100
2:35:52	9-0C	97.86	85.00	2084	449	0.094
2:40:52	9-0C	102.86	90.00	2084	449	0.090
2:45:52	9-0C	107.86	95.00	2084	449	0.085

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 1635

PRODUCING TIME [MIN] = 20.65

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
*****	*****	*****	*****	*****	*****	*****
2:50:52	9-0C	112.86	100.00	2084	449	0.082
2:55:52	9-0C	117.86	105.00	2084	449	0.078
3: 0:52	9-0C	122.86	110.00	2084	449	0.075
3: 5:52	9-0C	127.86	115.00	2084	449	0.072
3:10:52	9-0C	132.86	120.00	2084	449	0.069
3:15:52	9-0C	137.86	125.00	2084	449	0.066
3:20:52	9-0C	142.86	130.00	2084	449	0.064
3:25:52	9-0C	147.86	135.00	2084	449	0.062
3:30:52	9-0C	152.86	140.00	2084	449	0.060
3:35:52	9-0C	157.86	145.00	2084	449	0.058
3:40:52	9-0C	162.86	150.00	2085	450	0.056
3:45:52	9-0C	167.86	155.00	2086	451	0.054
3:45:56	9-0C	167.94	155.08	-2086	451	0.054

SHUTIN PRESSURE [PSIA]

ΔT (MIN)

HORNER PLOT

FIELD REPORT NO. 08723F

INSTRUMENT NO. J 1238

COMPANY : MERIDIAN OIL

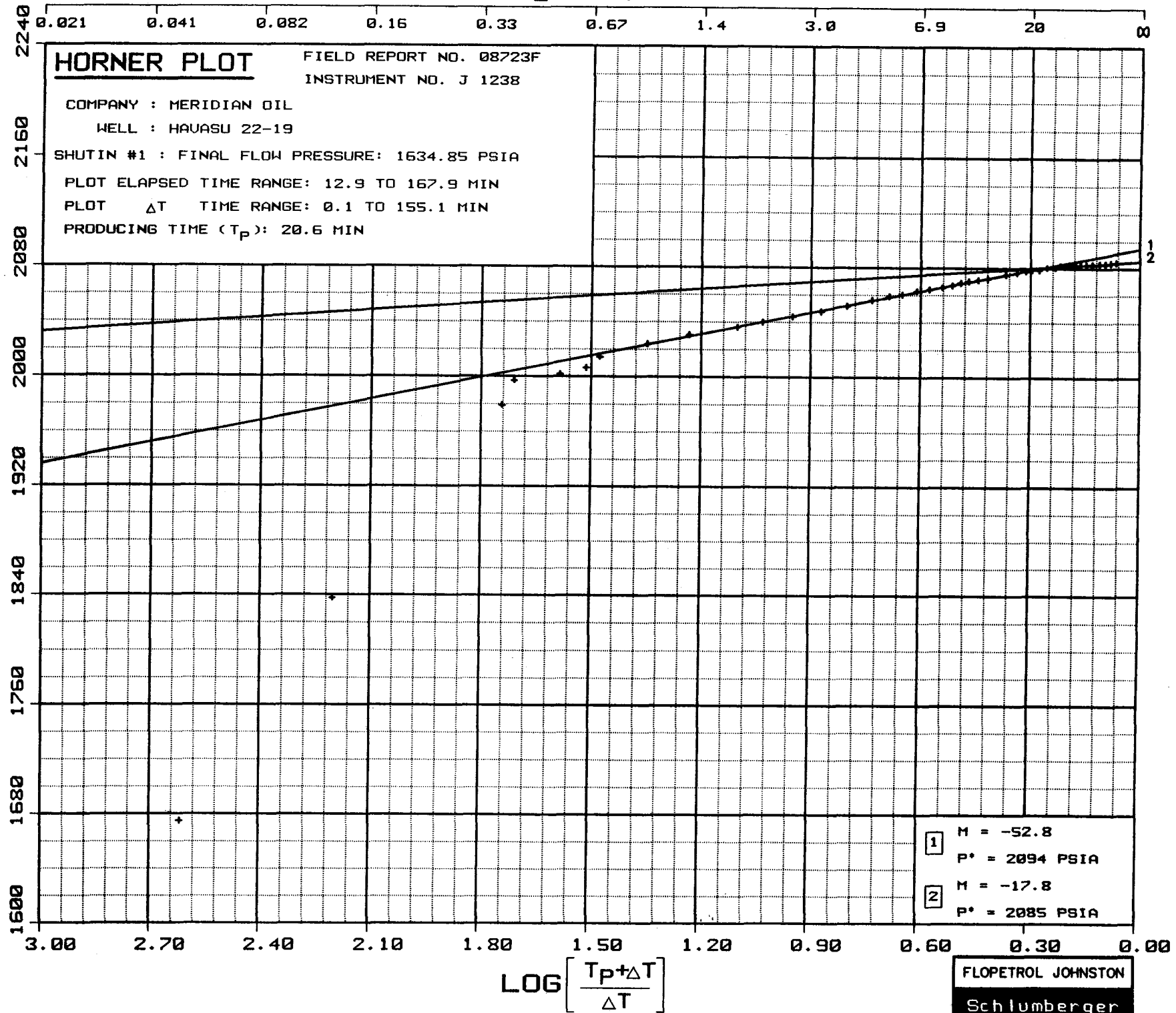
WELL : HAVASU 22-19

SHUTIN #1 : FINAL FLOW PRESSURE: 1634.85 PSIA

PLOT ELAPSED TIME RANGE: 12.9 TO 167.9 MIN

PLOT ΔT TIME RANGE: 0.1 TO 155.1 MIN

PRODUCING TIME (T_p): 20.6 MIN



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LOG LOG PLOT

COMPANY : MERIDIAN OIL

WELL : HAVASU 22-19

FIELD REPORT NO. 08723F

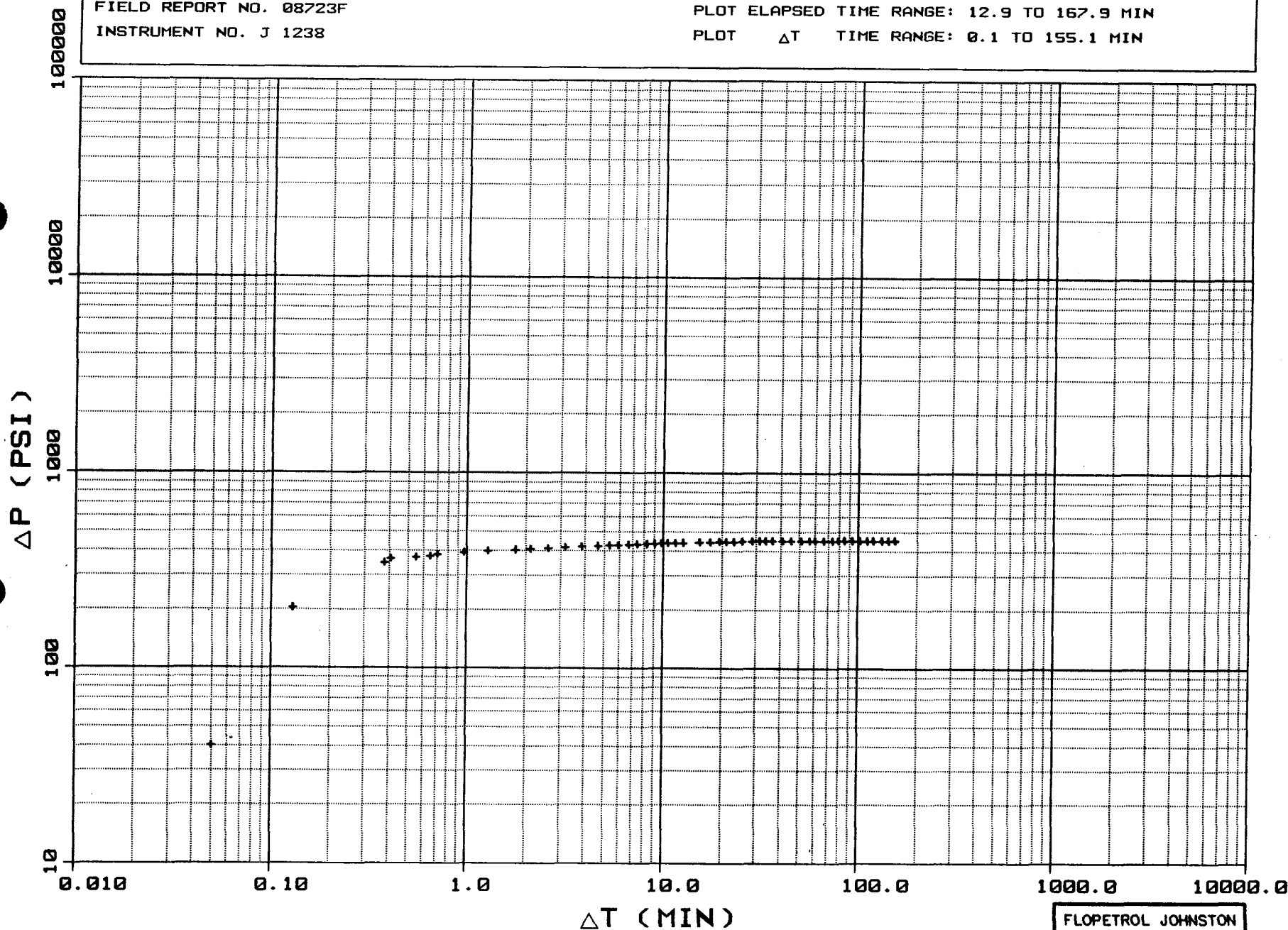
INSTRUMENT NO. J 1238

SHUTIN #1 :

FINAL FLOW PRESSURE (PWF): 1634.85 PSIA

PLOT ELAPSED TIME RANGE: 12.9 TO 167.9 MIN

PLOT ΔT TIME RANGE: 0.1 TO 155.1 MIN



FLOPETROL JOHNSTON

Schlumberger

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other <input type="checkbox"/>		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	
2. NAME OF OPERATOR MERIDIAN OIL INC.							
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface SENW (1850' FNL - 1255' FWL) At top prod. interval reported below Same At total depth Same							
14. PERMIT NO.		DATE ISSUED		12. COUNTY OR PARISH		13. STATE	
43-037-31278		9-18-86		San Juan		Utah	
15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD		
9-30-86	10-10-86	10-20-86		5080' GL	5092' KB		
20. TOTAL DEPTH, MD & TVD	21. PLUG BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS	
6074'	5868'	N/A			X		
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5768' - 5812' (Upper Ismay)						25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN GR/DLL/MSL, GR/CNL/FDC, Sonic, mud						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
13-3/8	61#	75'	17-1/2	94 SX		None	
8-5/8	24#	1,698'	11	440 SX		None	
5-1/2	17#	6,072'	7-7/8	900 SX		None	
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)			
N/A							
30. TUBING RECORD							
SIZE	DEPTH SET (MD)		PACKER SET (MD)				
2-7/8	5698'		-				
31. PERFORATION RECORD (Interval, size and number)							
5884' - 5886' w/4 jspf CIBP @ 5886' 5768' - 5812' w/4 jspf							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)			AMOUNT AND KIND OF MATERIAL USED				
5884' - 5886'			200 gal 15% Hcl				
5768' - 5812'			100 gal 15% Hcl				
33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)		
10-20-86		Flowing			Producing		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-20-86	24	44/64"		1961	1921	5	980:1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
474 psi	-		1961	1921	5	39.3° @ 60°F	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Flaring						TEST WITNESSED BY Dave Overgaard	
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED		TITLE			DATE		
Bj. C. Justice		Sr. Drilling Engineer			11/21/86		

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
U. Ismay	5683'	5712'	Times: 10-152. BHT 130°F. No cushion. Pipe recovery: 25 BO, HGC, Gty 40° @ 60°F. Sample chamber: 2500 cc volume, 1100 psi, 1590 cc oil, 2.95 cfg. HP 2738 - 2736; FP 1229 - 1632; SIP 2189.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
U. Ismay	5668'	
Top of Ø	5683'	
"A" Shale	5835'	
L. Ismay	5844'	
Top of Ø	5879'	
Gothic Shale	5892'	
Desert Creek	5830'	
Lower Ø	5995'	
Chimney Rock	6018'	
Akah	6042'	
Salt	6071'	

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
UTAH STATE OFFICE

3046
REC'D MCO 'UG 10 1984

020831

OIL OR HAZARDOUS SUBSTANCE DISCHARGE

1. Investigation Number _____ Date of Spill 1-21-88 Time AM (Military)
Spill Notification: By _____ Date _____ Time _____
Investigators NONE YET
Investigation Date _____ Time _____ Investigation Time (man/hrs) _____
EPA Notification NA State Division of Health Notification NA

2. Place of spill ALKALI CANYON
Legal Description T385 R24E Sec 19
County SAN JUAN Nearest town BLANDING UTAH
Did spill enter a waterway? NO If so, name _____ class _____
Extent of spill 230 BARRELS
Type of spill (Region VIII Contingency Plan Definitions) major _____ medium X
minor _____
Responsible Pollutor MEDICUM OIL Address PILLINGS ROAD
Contact Person (if known) ILLIACON Phone Number 256 4.21

Type of Operation - check one:

Pipeline	_____	Tank Battery	<u>X</u>
Drilling	_____	Transportation	_____
Refinery	_____	List Vehicle	_____
Other	_____		

Type of Oil or Product and Amount:

Gasoline	_____	Cruce	<u>X</u>
Kerosene	_____	Other	_____

(RETURN)

Cause of spill LEAK IN LINE FROM LAC METER TO SLOP TANK
LEST OIL CONTAINED WITHIN FIREWALL.

3. Draw a simple map showing permanent landmarks and extent of spill on the reverse side of this page.

4. Cleanup Operations: Date of Cleanup Completion 1-26-88 Time _____

Methods - check those which apply:

Burning	<u>X</u>	Absorption	_____
Skimming	<u>X</u>	Burial	<u>X</u>
Pumping	<u>X</u>	Other (explain)	_____

Brief summary of cleanup operation (problem, etc.)

OIL CONTAINED WITHIN FIREWALL - WILL BE PUMPED OUT. REMAINING
OIL WILL BE BURNED AND ANY RESIDUE REMOVED TO RESERVE PIT
ON 42-24

5. Remarks _____

38 S 24E

sec. 19

43-037-31287 POW

43-037-31314 Dr. l. (cont.)

43-037-31301 Dr. l. (cont.)

43-037-31282 POW

43-037-31278 POW

43-037-31302 Dr. l. (cont.)

43-037-31296 Dr. l. (cont.)

~~43-037-31295~~

43-037-31300 Dr. l. (cont.)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug wells in different reservoirs.
Use "APPLICATION FOR PERMIT-" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-56186 POW/13m4
2. NAME OF OPERATOR MERIDIAN OIL INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SENW (1850' FNL - 1255' FWL)		8. FARM OR LEASE NAME Havasu-Federal
14. PERMIT NO. 43-037-31278		9. WELL NO. 22-19
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5092' KB		10. FIELD AND POOL, OR WILDCAT Kachina
		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Section 19-38S-24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
(Other) ☐

PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
ABANDON* ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐
FRACTURE TREATMENT ☐
SHOOTING OR ACIDIZING ☐
(Other) ☐

REPAIRING WELL ☐
ALTERING CASING ☐
ABANDONMENT* ☐

(Other) First Gas Sales ☒

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Notice of First Gas Sales - February 18, 1988.

I hereby certify that the foregoing is true and correct

SIGNED W. A. Brown

TITLE Production Superintendent

DATE 2/22/88

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to surface (see 17).
Use "APPLICATION FOR PERMIT" for such proposals.

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-56186	
2. NAME OF OPERATOR MERIDIAN OIL INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SENW (1850' FNL - 1255' FWL)		8. FIRM OR LEASE NAME Havasú-Federal	
14. PERMIT NO. 43-037-31278		9. WELL NO. 22-19	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5092' KB		10. FIELD AND POOL, OR WILDCAT Kachina	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19-38S-24E	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Permission to flare gas on an emergency basis, is requested for the above named facility. All gas is being sold to Western Gas Processors at the present time, with no flaring of gas. Approval of this request would cover unforeseen instances of high line pressure or equipment malfunction. A 72 hr time period is suggested.

18. I hereby certify that the foregoing is true and correct

SIGNED W. G. Brown TITLE Production Superintendent DATE 4/27/88

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions on Reverse Side



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

well files

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 6, 1988

Meridian Oil Inc.
P.O. Box 1855
Billings, Montana 59103

Gentlemen:

Re: Request for Gas Venting or Flaring Approval

The Division of Oil, Gas And Mining has received several sundry notices requesting standing approval for emergency gas venting or flaring for the following wells in San Juan County:

Havasut Federal #22-19, Sec. 19, T. 38S, R. 24E
Havasut Federal #41-24, Sec. 24, T. 38S, R. 24E
Havasut Federal #42-24, Sec. 24, T. 38S, R. 24E
Cherokee Federal #11-14, Sec. 14, T. 37S, R. 23E
Cherokee Federal #22-14, Sec. 14, T. 37S, R. 23E
Cherokee Federal #33-14, Sec. 14, T. 37S, R. 23E
Cherokee Federal #43-14, Sec. 14, T. 37S, R. 23E

Your request was reviewed with Board of Oil, Gas and Mining during the informal briefing session of their May 26, 1988 Board meeting.

The Board determined that your request for standing approval to vent or flare gas from the subject wells on an emergency basis shall not be granted. It was the opinion of the Board that in cases of emergency venting or flaring, you must immediately notify the Division and properly report the volumes and duration of any such venting or flaring. The Division shall review all emergency venting or flaring of gas to ensure that such action is unavoidable and adheres to principles of proper conservation.

In this situation, the Board has granted the Division administrative authority to allow gas venting or flaring from the subject wells for verifiable emergencies. If, in the opinion of the Division staff, any reported venting or flaring is not justified, the Division will inform the Board and further action may be taken in accordance with the rules and orders of the Board.

Page 2
Meridian Oil Inc.
June 6, 1988

The factors which the Division may consider in reviewing emergency gas venting or flaring are:

1. The disruption of gas transportation and the reasons for such disruption.
2. The ability of Meridian to restrict production as long as correlative rights are protected and without causing waste.
3. The potential for any other conservation oriented alternative to gas venting or flaring.

If you have any further questions concerning this action, please contact John Baza at the letterhead address and telephone number. Thank you for your consideration in this matter.

Best regards,



Dianne R. Nielson
Director

JRB
cc: R. J. Firth
Well files
0458T-50-51

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-56186	
2. NAME OF OPERATOR MERIDIAN OIL INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SENW (1850' FNL - 1255' FWL)		8. FARM OR LEASE NAME Havasu-Federal	
14. PERMIT NO. 43-037-31278		9. WELL NO. 22-19	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5092' KB		10. FIELD AND POOL, OR WILDCAT Kachina	
		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Section 19, T38S, R24E	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Shut Well In <input checked="" type="checkbox"/>			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well will be shut in effective August 8, 1988 awaiting completion of waterflood facilities. Tentative date of return to production December 1, 1988.

18. I hereby certify that the foregoing is true and correct

SIGNED Will Brauer TITLE Production Superintendent DATE 8/5/88

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

BLM (3), UOGC (3)

*See Instructions on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		2. LEASE DESIGNATION & SERIAL NO. U 56186
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	2. NAME OF OPERATOR Meridian Oil Inc.	6. IF INDIAN ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR 1601 Lewis, Ste. 208, Billings, MT 59102	7. UNIT AGREEMENT NAME Kachina	8. FARM OR LEASE NAME Havasu Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Section 19-38S-24E At proposed prod. zone	9. WELL NO. 12-19, 12-19A and 22-19	10. FIELD AND POOL, OR WILDCAT Kachina
14. API NO. 43-037-31278	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19-38S-24E
16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data		12. COUNTY San Juan
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)		13. STATE UT

RECEIVED
OCT 02 1989
DIVISION OF
OIL GAS & MINING

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Notice of Flaring ☒

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

DATE OF COMPLETION _____

* Must be accompanied by a cement verification report.

El Paso Plant was down for mechanical problems, causing Western Gas Processors' Kachina plant to go down. 484 MCF was flared by wells in Section 19 of Kachina Field.

Verbal approval to flare was obtained from both the State of Utah and the BLM on Monday, September 25th.

Western's Gas Plant was back in operation at 0800 on 9/28/89.

18. I hereby certify that the foregoing is true and correct

SIGNED W. H. BrownTITLE Prod. Super.DATE 9/29/89

(This space for Federal or State office use)

APPROVED BY _____

CONDITIONS OF APPROVAL, IF ANY: _____

TITLE _____

DATE _____

FORM 3160-5
December 1989

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 08 1992

SUBMIT IN TRIPLICATE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires September 30, 1990

DIVISION OF
SUNDY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals

1. Type of Well Oil Well XX Gas Well Other

2. Name of Operator
Meridian Oil Inc.

3. Address and Telephone No.
5613 DTC Parkway; Englewood, CO 80111 (303) 930-9300

4. Location of Well (Footage, Sec., T.R.M. or Survey Description)
1850' FNL - 1255' FWL
SENW Sec. 19-T38S-R24E

5. Lease Designation and Serial No.
U-56186

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
Kachina Unit

8. Well Name and No.
Havasu Federal 22-19

9. API Well No.
43-037-31278

10. Field and Pool, or Exploratory Area
Kachina Unit

11. County or Parish, State
San Juan, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Change of lift system: Rotoflex to sub-pump

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

5-1-92 to 5-3-92:

Changed Rotoflex pump system to ODI Electric Submersible Pump.

RECEIVED

JUN 08 1992

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

SIGNED Karen J. Riley

Title Sr. Prod. Engr

Date 6-2-92

(This space for Federal or State office use)

Approved by _____
Condition of Approval, If any:

Title _____ Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

SUBMIT IN TRIPLICATE

STATE OF UTAH
DIVISION OF OIL, GAS AND MINES

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

Page 1 of 2

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

MARALENE SPAWN
 MERIDIAN OIL INC
 PO BOX 3209
 ENGLEWOOD CO 80155-3209

UTAH ACCOUNT NUMBER: N7230

REPORT PERIOD (MONTH/YEAR): 7 / 96

AMENDED REPORT ☐ (Highlight Changes)

Well Name API Number Entity Location	Producing Zone	Well Status	Days Oper	Production Volumes		
				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓ INDIAN CREEK #1 4301530082 02585 17S 06E 2	FRSD	✓		ML27626	E.mtn.Unit	
✓ INDIAN CREEK 10176-5 4301530117 02585 17S 06E 10	FRSD	✓		U15203	E.mtn.Unit	
✓ INDIAN CREEK UNIT 021762-3 4301530175 02585 17S 06E 2	FRSD	✓		U15204	E.mtn.Unit	
✓ 13-35 EMU HRE FEDERAL 4301530230 02585 16S 06E 35	FRSD	✓		U56933	E.mtn.Unit	
✓ E MOUNTAIN UNIT 32-23 4301530231 02585 16S 06E 23	FRSD	✓		U17024	E.mtn.Unit	
✓ HATCH POINT 27-1A 4303730518 02815 27S 21E 27	CNCR	✓		U-20016	Hatch Point U / Exxon? Susp.?	(Non Committed Lease)
✓ T CANYON UNIT 33-18 4301916203 09515 16S 25E 18	NWSE CDMTN	✓		U05059		
✓ NAVAJO FEDERAL 9-1 4303731001 09975 39S 25E 9	NWNE ISMY	✓		U52333	Kiva (Upper Mesa) Unit	
✓ NAVAJO FEDERAL 4-2 4303731161 09975 39S 25E 4	SWSE ISMY	✓		U52333	Kiva (Upper Mesa) Unit	
✓ NAVAJO FEDERAL #4-4 4303731179 09975 39S 25E 4	NWSW ISMY	✓		U52333	Kiva (Upper Mesa) Unit	
✓ 24-4 KIVA FEDERAL 4303731745 09975 39S 25E 4	SESW ISMY	✓		USAU52333	Kiva (Upper Mesa) Unit	
✓ HAVASU-FEDERAL #22-19 4303731278 10654 38S 24E 19	SESW ISMY	✓		U56186	Kechine Unit	
✓ HAVASU-FEDERAL #41-24 4303731279 10654 38S 23E 24	NENE ISMY	✓		U20895	Kechine Unit	
TOTALS						

COMMENTS:

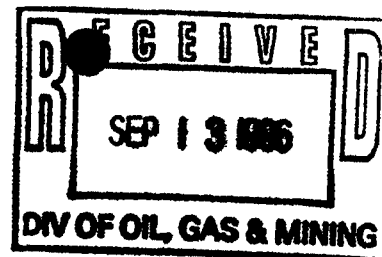
I hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

Signature: _____

Telephone Number: _____

MERIDIAN OIL



September 10, 1996

State of Utah
Division of Oil, Gas and Mining
355 ~~1594~~ West North Temple
Salt Lake City, UT 84180

Re: Name Change from Meridian Oil Inc. to
Burlington Resources Oil & Gas Co.

Gentlemen:

Please be advised effective July 11, 1996 Meridian Oil Inc. changed their name and address to:

Burlington Resources Oil & Gas Co.
3300 North "A" St., Bldg. 6
Midland, TX 79710-1810

Please see the attached list of wells that Burlington Resources operates in the State of Utah. If you should have any questions, please contact me at (303) 930-9393 or after September 30th at (915) 688-6800.

Sincerely,

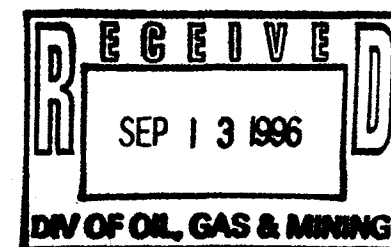
BURLINGTON RESOURCES OIL & GAS CO.

A handwritten signature in cursive script, reading "Eileen Danni Dey".

Eileen Danni Dey
Senior Regulatory Compliance Representative

Enclosure

FIELD	WELL NAME	WELL NO	FORMATION/POOL	COUNTY	OCATIO	SEC	TWN	RGE	API NUMBER	FEDERAL LEASE NUMBER	STATE CONTROL NO.
BANNOCK	BANNOCK FEDERAL	21-33	ISMAY	SAN JUAN	NENW	33	038S	024E	43-037-3142500	UTU60786A	10923
CEDAR MOUNTAIN	EAST CANYON UNIT	33-18	CEDAR MOUNTAIN	GRAND	NWSE	18	016S	025E	43-019-1620300	UTU05059	9515
EAST MOUNTAIN	EAST MOUNTAIN FEDERAL	13-35	FERRON	EMERY	NWSW	35	016S	006E	43-015-3023000	57287U6920	10789
EAST MOUNTAIN	EAST MOUNTAIN FEDERAL	32-23	FERRON	EMERY	SWNE	23	016S	006E	43-015-3023100	57287U6920	11075
FERRON	INDIAN CREEK UNIT	1	FERRON	EMERY	SWNW	02	017S	006E	43-015-3008200	57287U6920	02585
FERRON	INDIAN CREEK UNIT	3	FERRON	EMERY	SWSW	02	017S	006E	43-015-3107500	57287U6920	02585
FERRON	INDIAN CREEK UNIT 10176	5	FERRON	EMERY	SENE	10	017S	006E	43-015-3011700	57287U6920	02585
FERRON	INDIAN CREEK UNIT 14176	2	FERRON	EMERY	SWNE	14	017S	006E	43-015-3009100	UTU15202	10907
KACHINA	ARABIAN FEDERAL (WIW)	2	ISMAY	SAN JUAN	NWSW	19	038S	024E	43-037-3128200	UTU56186	10654
KACHINA	ARABIAN FEDERAL	3	ISMAY	SAN JUAN	NESW	19	038S	024E	43-037-3128700	UTU56186	10654
KACHINA	HAVASU FEDERAL (WIW)	11-19	UPPER ISMAY	SAN JUAN	NWNW	19	038S	024E	43-037-3145800	UTU56186	10654
KACHINA	HAVASU FEDERAL	12-19	UPPER ISMAY	SAN JUAN	SWNW	19	038S	024E	43-037-3145700	UTU56186	10654
KACHINA	HAVASU FEDERAL	12-19A	ISMAY	SAN JUAN	SWNW	19	038S	024E	43-037-3145900	UTU56186	10654
KACHINA	HAVASU FEDERAL	22-19	UPPER ISMAY	SAN JUAN	SENE	19	038S	024E	43-037-3127800	UTU56186	10654
KACHINA	HAVASU FEDERAL	41-24	UPPER ISMAY	SAN JUAN	NENE	24	038S	023E	43-037-3127900	UTU20895	10654
KACHINA	HAVASU FEDERAL (WIW)	42-24	UPPER ISMAY	SAN JUAN	SENE	24	038S	023E	43-037-3129800	UTU20895	10654
KACHINA	WASH UNIT (WSEW)	2	CUTLER	SAN JUAN	SESE	13	038S	023E	43-037-3132400	UTU20894	10654
KIVA (DESERT CREEK)	NAVAJO FEDERAL	41-5	DESERT CREEK	SAN JUAN	NENE	05	039S	025E	43-037-3142100	UTU57895	10810
KIVA (UPPER ISMAY)	KIVA FEDERAL	24-4	ISMAY	SAN JUAN	SESW	04	039S	025E	43-037-3174500	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	12-4	ISMAY	SAN JUAN	SWNW	04	039S	025E	43-037-3139500	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	14-4	ISMAY	SAN JUAN	SWSW	04	039S	025E	43-037-3132100	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	21-9	ISMAY	SAN JUAN	NENW	09	039S	025E	43-037-3126700	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	23-4	UPPER ISMAY	SAN JUAN	NESW	04	039S	025E	43-037-3125900	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL	4-2	ISMAY	SAN JUAN	SWSE	04	039S	025E	43-037-3116100	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL	4-4	ISMAY	SAN JUAN	NWSW	04	039S	025E	43-037-3117900	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL	42-5	UPPER ISMAY	SAN JUAN	SENE	05	039S	025E	43-037-3126100	83687U6890	10655
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WSEW)	42-9	WINGATE/CUTLER	SAN JUAN	SENE	09	039S	025E	43-037-3126300	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL	9-1	UPPER ISMAY	SAN JUAN	NWNE	09	039S	025E	43-037-3100100	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	4-1	ISMAY	SAN JUAN	SESW	04	039S	025E	43-037-3111200	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	43-5	ISMAY	SAN JUAN	NWSW	05	039S	025E	43-037-3131700	83687U6890	09975
LION MESA	HATCH POINT FEDERAL	27-1A	CANE CREEK	SAN JUAN	NESW	27	027S	021E	43-037-3051800	8910184250	02815

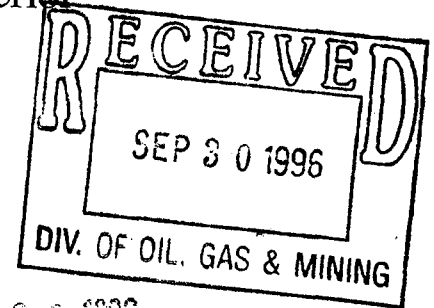




United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



In Reply Refer To
3100
SL-071010C
(UT-932)

SEP 26 1996

NOTICE

Burlington Resources Oil & Gas Company	:	Oil and Gas
801 Cherry Street, Suite 900	:	SL-071010C
Fort Worth, Texas 76102	:	

Corporate Name Change Recognized

Acceptable evidence has been filed in this office concerning the corporate name change from Meridian Oil Inc. to Burlington Resources Oil & Gas Company.

For our purposes, the name change is recognized effective July 12, 1996, the date the Secretary of State of Delaware certified the name change.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our field offices, you will be contacted by them.

A rider to Bond No. 400IA9059 (BLM Bond No. MT0719) has been accepted by the Montana State office as of September 16, 1996, its date of receipt. The rider changed the name on the bond from Meridian Oil Inc. to Burlington Resources Oil & Gas Company.

ROBERT LOPEZ

Robert Lopez
Group Leader,
Minerals Adjudication Group

Enclosure

Exhibit (1 p)

cc: MMS, Data Management Division, P.O. Box 5860, MS 3113, Denver, Colorado 80217
Moab District Office
Vernal District Office

bc: State of Utah, ATTN: Lisha Cordova, Division of Oil, Gas and Mining, P.O. Box 145801,
Salt Lake City, Utah 84114-5801
Teresa Thompson (UT-931)
Irene Anderson (UT-932)

Exhibit of Leases Affected

SL-071010C	U-8894A	U-40751	U-61752
SL-071595	U-8895A	U-45051	U-62143
U-0681	U-8897A	U-45929	U-62190
U-0683	U-15202	U-46825	U-63181
U-0684	U-15203	U-51045	UTU-64930
U-0685	U-15204	U-51046	UTU-64931
U-0719	U-16962A	U-51047	UTU-65329
U-0725	U-17024	U-52333	UTU-65607
U-0737	U-17623	U-56186	UTU-65750
U-0741	U-19281	U-56932	UTU-65751
U-0744	U-20016	U-56933	UTU-65868 (ROW)
U-03333	U-20895	U-56934	UTU-65940
U-04049	U-24606	U-57895	UTU-65943
U-04049A	U-39832	U-58728	UTU-66025
U-05059	U-40361	U-60428	UTU-66487
U-08107	U-40440	U-60520	UTU-66584
U-062420	U-40544 (ROW)	U-61556	UTU-66708
UTU-66830	UTU-66831	UTU-67565	UTU-67568
UTU-67569	UTU-67570	UTU-68232	UTU-68664
UTU-68676	UTU-69434	UTU-70115 (ROW)	UTU-70196
UTU-72660	U-60786X (Bannock Unit)	U-63089X (East Mountain Unit)	

OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

1-REC	6-1-1
2-GLD	7-KDR
3-DTS	8-SJ
4-VLD	9-FILE
5-RJF	

- ☒ Change of Operator (~~well sold~~) ☐ Designation of Agent
☐ Designation of Operator ☒ Operator Name Change ~~Only~~

The operator of the well(s) listed below has changed, effective: 7-11-96

TO: (new operator) <u>BURLINGTON RESOURCES O&G CO.</u>	FROM: (old operator) <u>MERIDIAN OIL INC</u>
(address) <u>3300 N "A" ST BLDG 6</u>	(address) <u>PO BOX 3209</u>
<u>MIDLAND TX 79710-1810</u>	<u>ENGLEWOOD CO 80155-3209</u>
<u>EILEEN DANNI DEY</u>	<u>EILEEN DANNI DEY</u>
Phone: <u>(915)688-6800</u>	Phone: <u>(303)930-9393</u>
Account no. <u>N7670</u>	Account no. <u>N7230</u>

WELL(S) attach additional page if needed:

***KACHINA, KIVA, EAST MOUNTAIN, BANNOCK UNIT'S**

Name: <u>**SEE ATTACHED**</u>	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- 1 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 9-13-96)
- 2 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 9-13-96)
- 3 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) ____ If yes, show company file number: #096593. (E.H. 1-29-82)
- 4 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of Federal and Indian well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- 5 5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. (i.e. WIC Program) (10-3-96)
- 6 6. Cardex file has been updated for each well listed above. (10-3-96)
- 7 7. Well file labels have been updated for each well listed above. (10-3-96)
- 8 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (10-3-96)
- 9 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY) #961002 "Rider" 80,000 to Burlington rec'd by Trust Lands Admin.

- Lee 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- N/A 2. A copy of this form has been placed in the new and former operator's bond files.
- N/A 3. The FORMER operator has requested a release of liability from their bond (yes/no) no, as of today's date 12-27-96. If yes, division response was made to this request by letter dated 12-27-96.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A 1. Copies of documents have been sent on 11/14/96 to OTIS at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Today's date: 12-27-96.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form, and the original attachments are now being filed in the Operator Change file.

COMMENTS

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

Page 1 of 2

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

MARALENE SPAWN
BURLINGTON RESOURCES O&G
3300 N A ST BLDG 6
MIDLAND TX 79710-1810

UTAH ACCOUNT NUMBER: N7670

REPORT PERIOD (MONTH/YEAR): 2 / 97

AMENDED REPORT ☐ (Highlight Changes)

Well Name (PI) Number Entity Location	Producing Zone	Well Status	Days Oper	Production Volumes		
				OIL(BBL)	GAS(MCF)	WATER(BBL)
INDIAN CREEK #1						
4301530082 02585 17S 06E 2	FRSD			ML 27626		
INDIAN CREEK 10176-5						
4301530117 02585 17S 06E 10	FRSD			U-15203		
INDIAN CREEK UNIT 021762-3						
4301530175 02585 17S 06E 2	FRSD			U-15204		
13-35 EMU HRE FEDERAL						
4301530230 02585 16S 06E 35	FRSD			U-56933		
E MOUNTAIN UNIT 32-23						
4301530231 02585 16S 06E 23	FRSD			U-17024		
HATCH POINT 27-1A						
4303730518 02815 27S 21E 27	CNCR			U-20016		
NAJO FEDERAL 9-1						
4303731001 09975 39S 25E 9	ISMY			U-52333		
NAVAJO FEDERAL 4-2						
4303731161 09975 39S 25E 4	ISMY			U-52333		
NAVAJO FEDERAL #4-4						
4303731179 09975 39S 25E 4	ISMY			U-52333		
24-4 KIVA FEDERAL						
4303731745 09975 39S 25E 4	ISMY			U-52333		
NAVASU FEDERAL #22-19						
4303731278 10654 38S 24E 19	ISMY			U-56186	Kachina Unit / Sec. Recovery	
NAVASU FEDERAL #41-24						
4303731279 10654 38S 23E 24	ISMY			U-20895	"	
ARABIAN FEDERAL #3						
4303731287 10654 38S 24E 19	IS-DC			U-56186	"	
TOTALS						

REMARKS: * Other wells pending; partial change only. (see separate change) *see*

I hereby certify that this report is true and complete to the best of my knowledge.

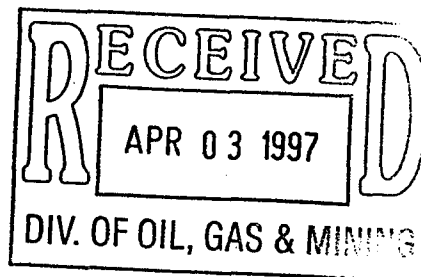
Date: _____

Name and Signature: _____

Telephone Number: _____

MERIT ENERGY COMPANY

12222 MERIT DRIVE, SUITE 1500
DALLAS, TEXAS 75251
(972) 701-8377
(972) 960-1252 Fax



April 2, 1997

**Utah Division of Oil, Gas and Mining
Attn: Ms. Lisha Cordova
1594 West North Temple
Suite 1210
Salt Lake City, Utah 84114**


**RE: Change of Operator to Merit Energy Company
Emery and San Juan County**

Dear Ms. Cordova:

Enclosed please find a copy of Form 3160 executed by both parties, Merit Energy and Burlington Resources.

If additional information or forms are required to process this transaction, please contact me at 972-701-8377.

**Yours very truly,
MERIT ENERGY COMPANY**


**Martha J. Rogers
Manager, Regulatory Affairs**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or re-entry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

BURLINGTON RESOURCES OIL & GAS COMPANY

3. Address and Telephone No (915)688-6800

P. O. BOX 51810, MIDLAND, TX 79710-1810

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1850' FNL - 1255' FWL, SENW

19 038S 024E, SLM

5. Lease Designation and Serial No.

UTU56186

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

HAVASU FEDERAL 22-19

9. API Well No.

43,037,3127800

10. Field and Pool, or Exploratory Area

KACHINA, ISMAY

11. County or Parish, State

SAN JUAN, UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other CHANGE OF
OPERATOR

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

13. Described Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

EFFECTIVE JANUARY 1, 1997, BURLINGTON RESOURCES OIL & GAS COMPANY, THE OPERATOR OF RECORD OF THE HAVASU FEDERAL 22-19 WELL, TRANSFERRED ALL OF ITS RIGHT, TITLE AND INTEREST IN SAID WELL TO MERIT PARTNERS, L.P. (AS TO 92.4%) AND MERIT ENERGY PARTNERS III, L.P. (AS TO 7.6%), C/O MERIT ENERGY COMPANY, 12222 MERIT DRIVE, DALLAS, TX 75251.

ON APRIL 1, 1997, MERIT ENERGY COMPANY, GENERAL PARTNER FOR MERIT PARTNERS, L.P. AND MERIT ENERGY PARTNERS III, L.P., WILL TAKE OVER PHYSICAL OPERATIONS OF SAID WELL ON BEHALF OF SAID LIMITED PARTNERSHIPS.

14. I hereby certify that the foregoing is true and correct.

Signed

Kent Beers

Title

Attorney-in-Fact

Date

March 31, 1997

(This space for Federal or State office use)

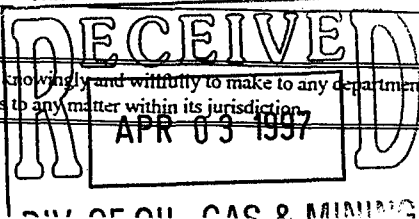
Approved By

Title

Date

Condition of Approval, If any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.



CHANGE OF OPERATOR STATE OF - UT

COUNTY	FIELD NAME	WELL NAME	STR	LSE#	WELLTYPE	APIWELL	COMM NO.	FED CNTRL	ST CNTRL
EMERY	EAST MOUNTAIN ,FERRON	EAST MOUNTAIN FEDERAL 13-35	35 016S 006E	? ML-27626	GAS WELL	43,015,3023000	UT060P49-67U69	57287U6920	025 <i>u56933</i>
EMERY	EAST MOUNTAIN ,FERRON	EAST MOUNTAIN FEDERAL 32-23	23 016S 006E		GAS WELL	43,015,3023100	UT060P49-67U69	57287U6920	025 <i>u17624</i>
EMERY	FERRON ,FERRON	INDIAN CREEK 021762 3	02 017S 006E	? ML-27626	GAS WELL	43,015,3017500		57287U6920	025 <i>u15204</i>
EMERY	FERRON ,FERRON	INDIAN CREEK 1	02 017S 006E	ML-27626	GAS WELL	43,015,3008200		57287U6920	025 <i>ML-27626</i>
EMERY	FERRON ,FERRON	INDIAN CREEK 10176 5	10 017S 006E	? ML-27626	GAS WELL	43,015,3011700		57287U6920	025 <i>u15203</i>
EMERY	FERRON ,FERRON	INDIAN CREEK 14176 1	14 017S 006E	UTU15202	GAS WELL	43,015,3009100		UTU15202	109 <i>u15202</i>
SAN JUAN	BANNOCK ,ISMAY	BANNOCK FEDERAL 21-33	33 038S 024E	✓ UTU60786	OIL WELL	43,037,3142500	60786A	UTU60786A	109 <i>u40361</i>
SAN JUAN	KACHINA ,CUTLER	WASH UNIT 2	13 038S 023E	UTU20894	WATER SOURCE	43,037,3132400		UTU20894	106 <i>u20894 (To Note Rights 4-7-97)</i>
SAN JUAN	KACHINA ,ISMAY	ARABIAN FEDERAL 2	19 038S 024E	UTU56186	WATER INJECTED	43,037,3128200		UTU56186	106 <i>u56186</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 11-19	19 038S 024E	UTU56186	WATER INJECTED	43,037,3145800		UTU56186	106 <i>u56186</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 12-19	19 038S 024E	UTU56186	OIL WELL	43,037,3145700		UTU56186	106 <i>u56186</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 12-19A	19 038S 024E	UTU56186	OIL WELL	43,037,3145900		UTU56186	106 <i>u56186</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 22-19	19 038S 024E	UTU56186	OIL WELL	43,037,3127800		UTU56186	106 <i>u56186</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 41-24	24 038S 023E	UTU20895	OIL WELL	43,037,3127900		UTU20895	106 <i>u20895</i>
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 42-24	24 038S 023E	UTU20895	WATER INJECTED	43,037,3129800		UTU20895	106 <i>u20895</i>

CHANGE OF OPERATOR STATE OF - UT

COUNTY	FIELD NAME	WELL NAME	STR	LSE#	WELLTYPE	APIWELL	COMM NO.	FED CNTRL	ST CNTRL
SAN JUAN	KACHINA, ISMAY-DESERT CREEK	ARABIAN FEDERAL 3	19 038S 024E	UTU56186	OIL WELL	43,037,3128700		UTU56186	106 <i>U56186</i>
SAN JUAN	KIVA (UPPER ISMAY), CUTLER	NAVAJO FEDERAL 42-9	09 039S 025E	U-52333	WATER SOURCE	43,037,3126300			<i>U52333 to water rights 4-797</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	KIVA FEDERAL 24-4	04 039S 025E		OIL WELL	43,037,3174500		83687U6890	099 <i>USA-U52333</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL (WIW) 4-1	04 039S 025E		WATER INJECTED	43,037,3111200		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL (WIW) 43-5	04 039S 025E		WATER INJECTED	43,037,3131700		83687U6890	099 <i>U58728</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL 12-4	04 039S 025E		WATER INJECTED	43,037,3139500		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL 14-4	04 039S 025E		WATER INJECTED	43,037,3132100		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL 21-9	09 039S 025E		WATER INJECTED	43,037,3126700		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL 23-4	04 039S 025E		WATER INJECTED	43,037,3125900		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL 4-1	04 039S 025E		OIL WELL	43,037,3111200		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL 4-2	04 039S 025E		OIL WELL	43,037,3116100		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL 4-4	04 039S 025E		OIL WELL	43,037,3117900		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL 42-5	05 039S 025E		OIL WELL	43,037,3128100		83687U6890	106 <i>U58728</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL 43-5	04 039S 025E		OIL WELL	43,037,3131700		83687U6890	099 <i>U58728</i>
SAN JUAN	KIVA (UPPER ISMAY), ISMAY	NAVAJO FEDERAL 9-1	09 039S 025E		OIL WELL	43,037,3100100		83687U6890	099 <i>U52333</i>
SAN JUAN	KIVA (UPPER ISMAY), WINGATE	NAVAJO FEDERAL 42-9	09 039S 025E		WATER SOURCE	43,037,3126300		83687U6890	099 <i>U52333 to water rights 4-797</i>

P.19/19

CHANGE OF OPERATOR STATE OF - UT

COUNTY	FIELD NAME	WELL NAME	STR	LSE#	WELLTYPE	APIWELL	COMM NO.	FED CNTRL	ST CNTRL
SAN JUAN	KIVA, DESERT CREEK	NAVAJO FEDERAL 41-5	05 039S 025E	UTU57895	OIL WELL	43,037,3135800		UTU57895	108 <i>U57895</i>
SAN JUAN	LION MESA, CANE CREEK	HATCH POINT FEDERAL 27-1A	27 027S 021E	UTU20016	OIL WELL	43,037,3051800		UTU20016	028 <i>U20016</i>

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or re-entry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

MERIT ENERGY COMPANY

3. Address and Telephone No (972) 701-8377

12222 MERIT DRIVE, DALLAS, TX 75251

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1850' FNL - 1255' FWL, SENW

19 038S 024E, SLM

5. Lease Designation and Serial No.

UTU56186

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

HAVASU FEDERAL 22-19

9. API Well No.

43,037,3127800

10. Field and Pool, or Exploratory Area

KACHINA, ISMAY

11. County or Parish, State

SAN JUAN, UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other CHANGE OF OPERATOR

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

RECEIVED
APR 28 1997
DIV. OF OIL, GAS & MINING

13. Described Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

EFFECTIVE AS OF JANUARY 1, 1997, BURLINGTON RESOURCES OIL & GAS COMPANY, THE PRIOR OPERATOR OF RECORD, TRANSFERRED ALL RIGHT, TITLE AND INTEREST IN THE HAVASU FEDERAL 22-19 WELL TO MERIT PARTNERS, L.P. (AS TO 92.4%) AND MERIT ENERGY PARTNERS III, L.P. (AS TO 7.6%), C/O MERIT ENERGY COMPANY, 12222 MERIT DRIVE, DALLAS, TX 75251. ON APRIL 1, 1997, MERIT ENERGY COMPANY, THE GENERAL PARTNER FOR MERIT PARTNERS, L.P. AND MERIT ENERGY PARTNERS III, L.P., WILL TAKE OVER PHYSICAL OPERATIONS OF SAID WELL ON BEHALF OF SAID LIMITED PARTNERSHIPS AND IS CONSIDERED TO BE THE OPERATOR OF SAID WELL AS OF THAT DATE.

MERIT ENERGY COMPANY IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE FOR THE OPERATIONS CONDUCTED UPON THE LEASED LANDS. BOND COVERAGE IN THE AMOUNT OF \$150,000 FOR MERIT ENERGY COMPANY IS PROVIDED UNDER BLM BOND NO. WY3011, IN FAVOR OF THE BUREAU OF LAND MANAGEMENT, U.S. DEPARTMENT OF THE INTERIOR.

14. I hereby certify that the foregoing is true and correct.

Signed

Martha Rogers

Title

Manager, Regulatory Affairs

Date

March 31, 1997

(This space for Federal or State official use)
B. D. Palmer

Assistant Field Manager,

Approved By

Title

Resource Management

Date

Condition of Approval, if any:

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

Merit Energy Company
Well No. Havasu Federal 22-19
SENW Sec. 24, T. 38 S., R. 24 E.
San Juan County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Merit Energy Company is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased land.

Bond coverage for this well is provided by BLM Bond WY3011 (Principle - Merit Energy Company) as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

Routing	
1-LEC	6-ALC
2-GLM	7-KAS
3-DPS	8-SI
4-VLD	9-FILE
5-JRB	

☒ Change of Operator (well sold)☐ Designation of Agent☐ Designation of Operator☐ Operator Name Change OnlyThe operator of the well(s) listed below has changed, effective: 4-1-97

TO: (new operator) MERIT ENERGY COMPANY
 (address) 12222 MERIT DR STE 1500
DALLAS TX 75251
MARTHA ROGERS
 Phone: (972) 701-8377
 Account no. N4900 (4-30-97)

FROM: (old operator)
 (address)

BURLINGTON RESOURCES O&G
3300 N A ST BLDG 6
MIDLAND TX 79710-1810
MARALENE SPAWN
 Phone: (915) 688-6800
 Account no. N7670

WELL(S) attach additional page if needed:

***KACHINA UNIT (SECONDARY RECOVERY)**

Name: **SEE ATTACHED**	API: <u>43-037-31288</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- Yes 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 4-3-97)
- Yes 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 4-3-97)
- Yes 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) (yes) If yes, show company file number: #C0198545. (Ref. 3-13-97)
- Yes 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- Yes 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (4-30-97)
- Yes 6. **Cardex** file has been updated for each well listed above. (5-30-97)
- Yes 7. Well **file labels** have been updated for each well listed above. (5-30-97)
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (4-30-97)
- Yes 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- ___ 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- ___ 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

- ___ 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.
- ___ 2. A **copy of this form** has been placed in the new and former operator's bond files.
- ___ 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) ___, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated _____ 19 ___, of their responsibility to notify all interest owners of this change.

FILMING

- VB 1. All attachments to this form have been **microfilmed**. Today's date: 6-20-97.

FILING

- ___ 1. Copies of all attachments to this form have been filed in each **well file**.
- ___ 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

COMMENTS

970430 BLM / Aprv. 4-23-97.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☐

OTHER ☐

2. NAME OF OPERATOR:

Merit Energy Company

3. ADDRESS OF OPERATOR:

12222 Merit Dr., Suite ^{CITY} Dallas

STATE TX

ZIP 75251

PHONE NUMBER:

(972) 701-8377

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Merit Energy Company advises, effective SEPT. 30, 2000, Journey Operating, L.L.C. will become the operator of the wells on the attached list.

Journey Operating, L.L.C.
1201 Louisiana, Suite 1040
Houston, TX. 77002
(713) 655-0595

By: Brian A. Baer
Brian A. Baer, President

RECEIVED

OCT 20 2000

DIVISION OF
OIL, GAS AND MINING

NAME (PLEASE PRINT) Arlene Valliquette

TITLE Manager - Regulatory Affairs

SIGNATURE

Arlene Valliquette

DATE

9/29/00

(This space for State use only)

(June 1990)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FORM APPROVED

Budget Bureau No.: 1004-0135

Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

*Do not use this form for proposals to drill or reentry to an
abandoned well. Use Form 3160-3 (APD) for such proposals*

SUBMIT IN TRIPLICATE - Other instructions on reverse side**1. Type of well**

☐ Oil ☐ Gas ☒ Other
Well Well Other Water Source Well

2. Name of Operator

Journey Operating, L.L.C.

3a. Address and Telephone No.

1201 Louisiana, Suite 1040, Houston, Tx 77002

3b. Phone No. (include area code)

713-655-0595

4. Location of Well (Footage, Sec, T,R, or Survey Description)

1050' FNL & 500' FEL (NE NE)

Sec 24, T 38S, R 23E

5. Lease Designation and Serial No.

UTU-20895

7. If Unit or CA, Agreement Designation**8. Well Name and No.**

Havasu Federal #41-24

9. API Number

43-037-31279

10. Field and Pool or Exploratory Area

Kachina; Ismay

11. County or Parish, State

San Juan County, UT

12 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**TYPE OF SUBMISSION**

- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
- ☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
- ☐ Casing Repair ☐ New construction ☐ Recomplete ☒ Other
- ☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon ☐ Change of Operator
- ☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated starting date of starting any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recompleat horizontally, give subsurface location and measured and true vertical depths of all pertinent markers and zone. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operations result in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Journey Operating, L.L.C. hereby accepts the operatorship of this well effective October 1, 2000. Journey Operating, L.L.C. will be responsible under the terms and conditions of the lease(s) for the operations conducted on the leased lands or portions thereof. Journey Operating, L.L.C. bond coverage is provided under Bond No. RLB0002487. BLM Bond # WY 3354 - Nationwide

14 I hereby certify that the foregoing is true and correctSigned: Sandra McJannetTitle: Sr. Regulatory AnalystDate: 1/17/01

(This space for Federal or State office use)

Approved by: William ThayerTitle: Assistant Field Manager,Date: 1/22/01

Conditions of approval, if any:

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United State any false, fictious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instructions on Reverse Side**cc: BLM 1/22/01

RECEIVED
JAN 25 2001
DIVISION OF
OIL GAS AND MINING

Journey Operating, LLC
Well No. Havasu Federal 41-24
NENE Sec. 24, T. 38 S., R. 23 E.
Lease UTU20895
San Juan County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Journey Operating, LLC is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by WY3354 (Principal - Journey Operating, LLC) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

RECEIVED

JAN 25 2001

DIVISION OF
OIL, GAS AND MINING

CHANGE OF OPERATOR
from Merit Energy Company to Journey Operating, L.L.C.
Federal Lease No. UTU-56186
Kachina Field
San Juan County, Utah

Attachement to BLM Form 3160-5

Well Type	Well Name/Number	API Number	Location of Well
Injection Well	Arabian Federal #2	43-037-31282	NW SW (2180' FSL & 950' FWL) Sec. 19-38S-24E
Oil Well	Arabian Federal #3	43-037-31287	NE SW (1470' FSL & 1750' FWL) Sec. 19-38S-24E
Injection Well	Havasus Federal #11-19	43-037-31458	NW NW (940' FNL & 590' FWL) Sec. 19-38S-24E
Oil Well	Havasus Federal #12-19	43-037-31457	SW NW (1840' FNL & 410' FWL) Sec. 19-38S-24E
Oil Well	Havasus Federal #12-19A	43-037-31459	SW NW (2520' FNL & 200' FWL) Sec. 19-38S-24E
Oil Well	Havasus Federal #22-19	43-037-31278	SW NW (1850' FNL & 1255' FWL) Sec. 19-38S-24E

RECEIVED

JAN 25 2001

DIVISION OF
OIL, GAS AND MINING

Journey Operating, LLC
Well Nos. 2, 3, 11-19, 12-19, 12-19A and 22-19
Sec. 19, T. 38 S., R. 24 E.
Lease UTU56186
San Juan County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Journey Operating, LLC is considered to be the operator of the above wells and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for these wells is provided by WY3354 (Principal - Journey Operating, LLC) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

RECEIVED

JAN 25 2001

DIVISION OF
OIL, GAS AND MINING

CHANGE OF OPERATOR
from Merit Energy Company to Journey Operating, L.L.C.
San Juan County, Utah

Attachment to Utah Form 19

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Oil Well	UTU-40361	Bannock	Bannock Federal #21-33	43-037-31425	NE NW (685' FNL & 1520' FWL) Sec. 33-T38S-R24E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park R-124	43-037-16169	NE NE (660' FNL & 660' FEL) Sec. 24-T40S-R25E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park S-216	43-037-15546	SW NW (1820' FNL & 500' FWL) Sec. 16-T40S-R26E
Injection Well	14-20-603-2055-A	Ismay	Ismay Flodine Park T-316	43-037-16462	NE SW (1980' FSL & 1980' FWL) Sec. 16-T40S-R26E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park S-416	43-037-15544	SW SW (1820' FNL & 500' FWL) Sec. 16-T40S-R26E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park U-416	43-037-15545	SW SE (660' FSL & 1980' FEL) Sec. 16-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-117	43-037-16456	NE NW (775' FNL & 1995' FWL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-217	43-037-16170	SW NW (1980' FNL & 660' FWL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-117	43-037-16188	NE NE (660' FNL & 660' FEL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-217	43-037-16180	SW NE (1980' FNL & 1820' FEL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-317	43-037-16463	NE SW (1980' FSL & 1980' FWL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-417	43-037-16185	SW SE (500' FSL & 1820' FEL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-118	43-037-16457	NE NW (660' FNL & 1980' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park S-218	43-037-16171	SW NW (1820' FNL & 660' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-318	43-037-16464	NE SE (1980' FSL & 1980' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park V-318	43-037-16467	NE SE (1980' FSL & 660' FEL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park U-418	43-037-16186	SW SE (660' FSL & 1980' FEL) Sec. 18-T40S-R26E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-119	43-037-16458	NE NW (660' FNL & 1980' FWL) Sec. 19-T40S-R26E
Water Source Well	I-149-IND-9123	Ismay	Ismay Flodine Park V-219	43-037-16519	SE NE (1980' FNL & 560' FEL) Sec. 19-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-120	43-037-16190	NE NE (660' FNL & 660' FEL) Sec. 20-T40S-R26E
Water Source Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-220	43-037-20055	SE NE (1950' FNL & 1120' FEL) Sec. 20-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-121	43-037-31629	NW NW (500' FNL & 660' FWL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-121	43-037-16460	NE NW (610' FNL & 2050' FWL) Sec. 21-T40S-R26E
Water Source Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-121	43-037-20056	NW NE (540' FNL & 1980' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-121	43-037-16191	NE NE (660' FNL & 660' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-421	43-037-11267	SW SE (660' FSL & 1980' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-321	43-037-16194	NE SE (1980' FSL & 670' FEL) Sec. 21-T40S-R26E

CHANGE OF OPERATOR
from Merit Energy Company to Journey Operating, L.L.C.
San Juan County, Utah

Attachment to Utah Form 19

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-222	43-037-16173	SW NW (2030' FNL & 820' FWL) Sec. 22-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-322	43-037-16179	NE SW (1820' FSL & 1935' FWL) Sec. 22-T40S-26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-422	43-037-16187	SW SE (820' FSL & 2140' FEL) Sec. 22-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park S-227	43-037-16231	SW NW (2140' FNL & 820' FWL) Sec. 27-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park U-127	43-037-31648	NE NE (745' FNL & 595' FEL) Sec. 27-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park U-227	43-037-16234	SW NE (2120' FNL & 1950' FEL) Sec. 27-T40S-R26E
Oil Well	14-20-603-2058-A	Ismay	Ismay Flodine Park U-234	43-037-16184	SW NE (1980' FNL & 2080' FEL) Sec. 34-T40S-R26E
Water Source Well	UTU-20894	Kachina	Wash Unit #2	43-037-31324	SE SE (470' FSL & 850' FEL) Sec. 13-T38S-R23E
Oil Well	UTU-20895	Kachina	Havasus Federal #41-24	43-037-31279	NE NE (1050' FNL & 500' FEL) Sec. 24-T38S-R23E
Injection Well	UTU-20895	Kachina	Havasus Federal #42-24	43-037-31298	SE NE (1970' FNL & 461' FEL) Sec. 24-T38S-R23E
Injection Well	UTU-56186	Kachina	Arabian Federal #2	43-037-31282	NW SW (2180' FSL & 950' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Arabian Federal #3	43-037-31287	NE SW (1470' FSL & 1750' FWL) Sec. 19-T38S-R24E
Injection Well	UTU-56186	Kachina	Havasus Federal #11-19	43-037-31458	NW NW (940' FNL & 590' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #12-19	43-037-31457	SW NW (1840' FNL & 410' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #12-19A	43-037-31459	SW NW (2520' FNL & 200' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #22-19	43-037-31278	SW NW (1850' FNL & 1255' FWL) Sec. 19-T38S-R24E
Injection Well	UTU-52333	Kiva	Navajo Federal #12-4	43-037-31395	SW NW (2260' FNL & 440' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #14-4	43-037-31321	SW SW (1150' FSL & 1110' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #23-4	43-037-31259	NE SW (1500' FSL & 2500' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Kiva Federal #24-4	43-037-31745	SE SW (1057' FSL & 1997' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #4-1	43-037-31112	SE SW (370' FSL & 1940' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #4-2	43-037-31161	SW SE (300' FSL & 2225' FEL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #4-4	43-037-31179	NW SW (1980' FSL & 660' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-57895	Kiva	Navajo Federal #42-5	43-037-31261	SE NE (2130' FNL & 320' FEL) Sec. 5-T39S-R25E
Injection Well	UTU-58728	Kiva	Navajo Federal #43-5	43-037-31317	NE SE (1954' FSL & 627' FEL) Sec. 5-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #9-1	43-037-31001	NW NE (770' FNL & 2010' FEL) Sec. 9-T39S-R25E

CHANGE OF OPERATOR
from Merit Energy Company to Journey Operating, L.L.C.
San Juan County, Utah

Attachment to Utah Form 19

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
● Injection Well	UTU-52333	Kiva	Navajo Federal #21-9	43-037-31267	NE NW (330' FNL & 2510' FWL) Sec. 9-T39S-R25E
Water Source Well	UTU-52333	Kiva	Navajo Federal #42-9	43-037-31263	SE NE (1850' FNL & 1140' FEL) Sec. 9-T39S-R25E

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS	✓
2. CDW	✓	5- SP	✓
3. JLT		6-FILE	

Enter date after each listed item is completed

X Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

Merger

The operator of the well(s) listed below has changed, effective: **10/01/2000**

FROM: (Old Operator):
MERIT ENERGY COMPANY
Address: 12222 MERIT DR. STE 1500
DALLAS, TX 75251
Phone: 1-(972)-701-8377
Account No. N4900

CA No.

TO: (New Operator):
JOURNEY OPERATING LLC
Address: 1201 LOUISIANA STE 1040
HOUSTON, TX 77002
Phone: 1-(713)-655-0595
Account No. N1435

Unit: KACHINA

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
HAVASU FEDERAL 41-24	43-037-31279	10654	24-38S-23E	FEDERAL	OW	P
ARABIAN FEDERAL # 3	43-037-31287	10654	19-38S-24E	FEDERAL	OW	P
HAVASU FEDERAL 12-19	43-037-31457	10654	19-38S-24E	FEDERAL	OW	P
HAVASU FEDERAL 12-19A	43-037-31459	10654	19-38S-24E	FEDERAL	OW	P
HAVASU FEDERAL 22-19	43-037-31278	10654	19-38S-24E	FEDERAL	OW	P

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 10/23/2000
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 01/25/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 02/06/2001
4. Is the new operator registered in the State of Utah: YES Business Number: 4822566-0161
5. If **NO**, the operator was contacted on: N/A
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 01/22/2001

7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC") Prog:** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 02/06/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 02/06/2001
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: N/A

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond No: _____
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

FILMING:

1. All attachments to this form have been **MICROFILMED** on: 2-21-01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: _____

COMMENTS:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ

2. CDW

X Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

6/9/2006

FROM: (Old Operator):

N1435-Journey Operating, LLC
 201 Louisiana, Suite 1040
 Houston, TX 77002

Phone: 1 (713) 655-0595

TO: (New Operator):

N0265-Citation Oil & Gas Corp
 8223 Willow Place South
 Houston, TX 77070

Phone: 1 (281) 517-7800

CA No.

Unit:

KACHINA

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
HAVASU-FEDERAL 22-19	19	380S	240E	4303731278	10654	Federal	OW	P
HAVASU-FEDERAL 41-24	24	380S	230E	4303731279	10654	Federal	OW	P
ARABIAN FED 2	19	380S	240E	4303731282	10654	Federal	WI	A
ARABIAN FEDERAL 3	19	380S	240E	4303731287	10654	Federal	OW	P
HAVASU FED 42-24	24	380S	230E	4303731298	10654	Federal	WI	A
WASH UNIT 2	13	380S	230E	4303731324	10654	Federal	WS	A
HAVASU FEDERAL 12-19	19	380S	240E	4303731457	10654	Federal	OW	S
HAVASU FED 11-19	19	380S	240E	4303731458	10654	Federal	WI	A
HAVASU FEDERAL 12-19A	19	380S	240E	4303731459	10654	Federal	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/23/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/23/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: _____
- Is the new operator registered in the State of Utah: YES Business Number: 793304-0143
- If **NO**, the operator was contacted on: _____
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 7/6/2006 BIA
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 7/6/2006
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/30/2006

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 7/31/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/31/2006
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: 7/31/2006

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: 104061650
- Indian well(s) covered by Bond Number: 104061656

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:
Journey Operating, L.L.C.

N 1435

3. ADDRESS OF OPERATOR:
1201 Louisiana, Suite 1040 Houston TX 77002

PHONE NUMBER:
(713) 655-0595

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached List

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:
See Attached List

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
See Attached List

8. WELL NAME and NUMBER:
See Attached List

9. API NUMBER:
See Attach

10. FIELD AND POOL, OR WILDCAT:
See Attached List

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Journey Operating, L.L.C. advises, effective June 9, 2006, Citation Oil & Gas Corp. will become the operator of the wells on the attached list.

Citation Oil & Gas Corp. (N0265)
8223 Willow Place South
Houston, TX 77070
(281) 517-7800
Bond No.: 104325628 - \$120,000

BLM BOND = 104061650
BIA BOND = 104061656

By: Robert T. Kennedy
Robert T. Kennedy
Sr. Vice President Land

NAME (PLEASE PRINT) Brian A. Baer

TITLE President

SIGNATURE

Brian A. Baer

DATE 6/9/2006

(This space for State use only)

APPROVED 7/13/12/2006

Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(5/2000)

(Instructions on Reverse Side)

RECEIVED

JUN 23 2006

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Citation Oil & Gas Corp.

3a. Address
8223 Willow Place South, Houston, TX 77070

3b. Phone No. (include area code)
281-517-7800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
See Attached List

5. Lease Serial No.

UTU-56186

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
See Attached List

9. API Well No.
See Attached List

10. Field and Pool, or Exploratory Area
Kachina; Ismay

11. County or Parish, State
San Juan Co., UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change of Operator
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Effective June 9, 2006, Citation Oil & Gas Corp. will take over as operator of the above captioned lease(s) from Journey Operating, L.L.C.

Citation Oil & Gas Corp. hereby accepts the operatorship of the above captioned lease(s). Citation Oil & Gas Corp. will be responsible under the terms and conditions of the lease(s) for the operations conducted on the leased lands or portion thereof. Citation Oil & Gas Corp. bond coverage is provided under Bond No. 104061650 MTB000053.

RECEIVED
JUL 10 2006
BLM - UT - 950
DIV. OF OIL, GAS & MINING
AM 9:15

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Robert T. Kennedy

Title Sr. Vice President Land

Signature

Robert T. Kennedy

Date

06/09/2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

ACCEPTED

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title Division of Resources

Moab Field Office

Office

Date

7/10/06

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

cc: UDDM 7/10/06

CONDITIONS OF APPROVAL ATTACHED

CHANGE OF OPERATOR
From Journey Operating, L.L.C. To Citation Oil & Gas Corp.
Federal Lease No.: UTU-56186
Kachina Unit
San Juan County, UT

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Injection Well	UTU-56186	Kachina	Arabian Federal #2	43-037-31282	NW SW (2180' FSL & 950' FWL) Sec 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Arabian Federal #3	43-037-31287	NE SW (1470' FSL & 1750' FWL) Sec 19-T38S-R24E
Injection Well	UTU-56186	Kachina	Havasus Federal #11-19	43-037-31458	NW NW (940' FNL & 590' FWL) Sec 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #12-19	43-037-31457	SW NW (1840' FNL & 410' FWL) Sec 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #12-19A	43-037-31459	SW NW (2520' FNL & 200' FWL) Sec 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasus Federal #22-19	43-037-31278	SE NW (1850' FNL & 1255' FWL) Sec 19-T38S-R24E

Citation Oil and Gas Corporation
All Wells on Lease
Section 19, T38S, R24E
Lease UTU56186
Grand County, Utah

CONDITIONS OF ACCEPTANCE

Acceptance of these applications does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Citation Oil and Gas Corporation is considered to be the operator of the above wells effective June 9, 2006, and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for these wells is provided by MTB000053 (Principal – Citation Oil and Gas Corporation) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43CFR 3106.7-2 continuing responsibility are met.



RICHARDSON OPERATING COMPANY

4725 S. Monaco Street, Suite 200
Denver, Colorado 80237
(303) 830-8000 Fax (303) 830-8009

RECEIVED

AUG 02 2013

DIV. OF OIL, GAS & MINING

July 29, 2013

Attn: Zeke Clements
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Re: Sundry Notices and Reports on Wells - Change of Operator and Transfers of Authority to Inject

Dear Zeke:

Enclosed for approval by the Utah Division of Oil, Gas and Mining, please find two originally executed Sundry Notices and Reports on Wells on Form 9, for the following 18 leases and wells (API # included):

<u>Lease #</u>	<u>Well Name</u>	<u>API Well No.</u>
UTU-20894	Wash Unit 2	43-037-31324 ✓
UTU-20895	Havasu-Federal 41-24	43-037-31279 ✓
UTU-20895	Havasu-Federal 42-24	43-037-31298 ✓
UTU-40361	Bannock -Fed 21-33	43-037-31425 ✓
UTU-52333	24-4 Kiva Federal	43-037-31745 ✓
UTU-52333	Navajo Federal 12-4	43-037-31395 ✓
UTU-52333	Navajo Federal 14-4	43-037-31321 ✓
UTU-52333	Navajo Federal 21-9	43-037-31267 ✓
UTU-52333	Navajo Federal 4-1	43-037-31112 ✓
UTU-52333	Navajo Federal 4-2	43-037-31161 ✓
UTU-52333	Navajo Federal 42-9	43-037-31263 ✓
UTU-52333	Navajo Federal 4-4	43-037-31179 ✓
UTU-52333	Navajo Federal 9-1	43-037-31001 ✓
UTU-56185	Arabian Federal 3	43-037-31287 ✓
UTU-56186	Havasu-Federal 11-19	43-037-31458 ✓
UTU-56186	Havasu-Federal 22-19	43-037-31278 ✓
UTU-58728	Navajo Federal 42-5	43-037-31261 ✓
UTU-58728	Navajo Federal 43-5	43-037-31317 ✓

APPROVED

AUG 19 2013

DIV. OIL GAS & MINING
BY: Raehee Medina

Also enclosed for the approval by the Utah Division of Oil, Gas and Mining, please find one originally executed Transfer of Authority to Inject on Form UIC Form 5 for the following seven wells:

<u>Lease #</u>	<u>Well Name</u>	<u>API Well No.</u>
UTU-20895	Havasus-Federal 42-24	43-037-31298 ✓
UTU-52333	Navajo Federal 12-4	43-037-31395 ✓
UTU-52333	Navajo Federal 14-4	43-037-31321 ✓
UTU-52333	Navajo Federal 21-9	43-037-31267 ✓
UTU-52333	Navajo Federal 4-1	43-037-31112 ✓
UTU-56186	Havasus-Federal 11-19	43-037-31458 ✓
UTU-58728	Navajo Federal 43-5	43-037-31317 ✓

Please return the approved documents for each well to:

Richardson Operating Company
4725 S. Monaco Street, Suite 200,
Denver, Colorado 80237.

If you have any questions, please do not hesitate to contact me at the number above or via email at land@richardsonoil.com.

Sincerely,



Ann Barthrop
Senior Land Analyst

Enclosures

RECEIVED
AUG 02 2013
Div. of Oil, Gas & Mining

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING

CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

4/1/2013

FROM: (Old Operator):

N0265-Citation Oil & Gas Corp

P O BOX 690688

Houston, TX. 77269

Phone: 1 (281) 891-1000

TO: (New Operator):

N2400-Richardson Operating Co.

4725 S Monaco Street, Suite 200

Denver, CO. 80237

Phone: 1 (303)830-8000

CA No.

Unit:

Kachina

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/2/2013
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/2/2013
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/26/2013
- a. Is the new operator registered in the State of Utah: Business Number: 8776630-0143
- 5a. (R649-9-2)Waste Management Plan has been received on: N/A
- 5b. Inspections of LA PA state/fee well sites complete on: N/A
- 5c. Reports current for Production/Disposition & Sundries on: 8/19/2013
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM Not Yet BIA N/A
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: Not Yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: Not Yet
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 8/7/2013

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 8/26/2013
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/26/2013
- Bond information entered in RBDMS on: 8/26/2013
- Fee/State wells attached to bond in RBDMS on: N/A
- Injection Projects to new operator in RBDMS on: 8/26/2013
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: RLB0002500
- Indian well(s) covered by Bond Number: N/A
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number N/A
- b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

Citation Oil & Gas Corp (N0265) to Richardson Operating Co. (N2400)
Effective 1-April-2013

Well Name	Sec.	Township	Range	API No.	Utah Entity No.	Mineral Lease Type	Well Type	Well Status	Unit Name
HAVASU-FEDERAL 22-19	19	380S	240E	4303731278	10654	Federal	Oil Well	Producing	KACHINA
HAVASU-FEDERAL 41-24	24	380S	230E	4303731279	10654	Federal	Oil Well	Producing	KACHINA
ARABIAN FEDERAL 3	19	380S	240E	4303731287	10654	Federal	Oil Well	Producing	KACHINA
HAVASU FED 42-24	24	380S	230E	4303731298	10654	Federal	Water Injection	Active	KACHINA
WASH UNIT 2	13	380S	230E	4303731324	9975	Federal	Water Source	Active	KACHINA
HAVASU FED 11-19	19	380S	240E	4303731458	10654	Federal	Water Injection	Active	KACHINA

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECEIVED

AUG 02 2013

FORM 9

Div. of Oil, Gas & Mining

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Change of Operator</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: Federal UTU-56186
2. NAME OF OPERATOR: Richardson Operating Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 4725 S Monaco St. Suite 200 CITY Denver STATE CO ZIP 80237		7. UNIT or CA AGREEMENT NAME: NA
PHONE NUMBER: (303) 830-8000		8. WELL NAME and NUMBER: HAVASU-FEDERAL 22-19
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1850 N 1255 W		9. API NUMBER: 037-31278
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 19 38S 24E		10. FIELD AND POOL, OR WILDCAT: KACHINA
COUNTY: SAN JUAN		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Citation Oil & Gas Corp. has sold the captioned well to Richardson Operating Company and requests that they be named as Operator of Record effective 4/1/2013

Please release this well from coverage under Citation Oil & Gas Corp.'s Utah Statewide Bond # 104325628.

On behalf of Citation Oil & Gas Corp. I hereby certify that the foregoing is true and correct:

Sharon Ward Permitting Manager: Sharon Ward Date: 4/1/2013

By execution of this document, Richardson Operating Company requests the State of Utah to approve them as Operator of Record for the above captioned well and accepts responsibility for this well under it's Statewide Oil and Gas Lease Bond in favor of the United States Department of the Interior, Bureau of Land Management Bond # RLB0002500.

On behalf of Richardson Operating Company, I hereby certify that the foregoing is true and correct:	
NAME (PLEASE PRINT) <u>David B. Richardson, Jr.</u>	TITLE <u>President</u>
SIGNATURE <u>D.B. Richardson</u>	DATE <u>7-29-2013</u>

(This space for State use only)



RICHARDSON OPERATING COMPANY

4725 S. Monaco Street, Suite 200
Denver, Colorado 80237
(303) 830-8000 Fax (303) 830-8009

RECEIVED

AUG 02 2013

DIV. OF OIL, GAS & MINING

July 29, 2013

Attn: Zeke Clements
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Re: Sundry Notices and Reports on Wells - Change of Operator and Transfers of Authority to Inject

Dear Zeke:

Enclosed for approval by the Utah Division of Oil, Gas and Mining, please find two originally executed Sundry Notices and Reports on Wells on Form 9, for the following 18 leases and wells (API # included):

<u>Lease #</u>	<u>Well Name</u>	<u>API Well No.</u>
UTU-20894	Wash Unit 2	43-037-31324 ✓
UTU-20895	Havasufederal 41-24	43-037-31279 ✓
UTU-20895	Havasufederal 42-24	43-037-31298 ✓
UTU-40361	Bannock -Fed 21-33	43-037-31425 ✓
UTU-52333	24-4 Kiva Federal	43-037-31745 ✓
UTU-52333	Navajo Federal 12-4	43-037-31395 ✓
UTU-52333	Navajo Federal 14-4	43-037-31321 ✓
UTU-52333	Navajo Federal 21-9	43-037-31267 ✓
UTU-52333	Navajo Federal 4-1	43-037-31112 ✓
UTU-52333	Navajo Federal 4-2	43-037-31161 ✓
UTU-52333	Navajo Federal 42-9	43-037-31263 ✓
UTU-52333	Navajo Federal 4-4	43-037-31179 ✓
UTU-52333	Navajo Federal 9-1	43-037-31001 ✓
UTU-56185	Arabian Federal 3	43-037-31287 ✓
UTU-56186	Havasufederal 11-19	43-037-31458 ✓
UTU-56186	Havasufederal 22-19	43-037-31278 ✓
UTU-58728	Navajo Federal 42-5	43-037-31261 ✓
UTU-58728	Navajo Federal 43-5	43-037-31317 ✓

APPROVED

AUG 19 2013

DIV. OIL GAS & MINING
BY: Raehee Medina

Also enclosed for the approval by the Utah Division of Oil, Gas and Mining, please find one originally executed Transfer of Authority to Inject on Form UIC Form 5 for the following seven wells:

<u>Lease #</u>	<u>Well Name</u>	<u>API Well No.</u>
UTU-20895	Havasus-Federal 42-24	43-037-31298 ✓
UTU-52333	Navajo Federal 12-4	43-037-31395 ✓
UTU-52333	Navajo Federal 14-4	43-037-31321 ✓
UTU-52333	Navajo Federal 21-9	43-037-31267 ✓
UTU-52333	Navajo Federal 4-1	43-037-31112 ✓
UTU-56186	Havasus-Federal 11-19	43-037-31458 ✓
UTU-58728	Navajo Federal 43-5	43-037-31317 ✓

Please return the approved documents for each well to:

Richardson Operating Company
4725 S. Monaco Street, Suite 200,
Denver, Colorado 80237.

If you have any questions, please do not hesitate to contact me at the number above or via email at land@richardsonoil.com.

Sincerely,



Ann Barthrop
Senior Land Analyst

Enclosures

RECEIVED
AUG 02 2013
Div. of Oil, Gas & Mining

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING

CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

4/1/2013

FROM: (Old Operator): N0265-Citation Oil & Gas Corp P O BOX 690688 Houston, TX. 77269 Phone: 1 (281) 891-1000	TO: (New Operator): N2400-Richardson Operating Co. 4725 S Monaco Street, Suite 200 Denver, CO. 80237 Phone: 1 (303)830-8000
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CA No.				Unit:	Kachina			
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/2/2013
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/2/2013
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/26/2013
- a. Is the new operator registered in the State of Utah: Business Number: 8776630-0143
- 5a. (R649-9-2)Waste Management Plan has been received on: N/A
- 5b. Inspections of LA PA state/fee well sites complete on: N/A
- 5c. Reports current for Production/Disposition & Sundries on: 8/19/2013
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM Not Yet BIA N/A
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: Not Yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: Not Yet
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 8/7/2013

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 8/26/2013
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/26/2013
- Bond information entered in RBDMS on: 8/26/2013
- Fee/State wells attached to bond in RBDMS on: N/A
- Injection Projects to new operator in RBDMS on: 8/26/2013
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: RLB0002500
- Indian well(s) covered by Bond Number: N/A
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number N/A
- b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

Citation Oil & Gas Corp (N0265) to Richardson Operating Co. (N2400)
Effective 1-April-2013

Well Name	Sec.	Township	Range	API No.	Utah Entity No.	Mineral Lease Type	Well Type	Well Status	Unit Name
HAVASU-FEDERAL 22-19	19	380S	240E	4303731278	10654	Federal	Oil Well	Producing	KACHINA
HAVASU-FEDERAL 41-24	24	380S	230E	4303731279	10654	Federal	Oil Well	Producing	KACHINA
ARABIAN FEDERAL 3	19	380S	240E	4303731287	10654	Federal	Oil Well	Producing	KACHINA
HAVASU FED 42-24	24	380S	230E	4303731298	10654	Federal	Water Injection	Active	KACHINA
WASH UNIT 2	13	380S	230E	4303731324	9975	Federal	Water Source	Active	KACHINA
HAVASU FED 11-19	19	380S	240E	4303731458	10654	Federal	Water Injection	Active	KACHINA

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECEIVED

AUG 02 2013

FORM 9

Div. of Oil, Gas & Mining

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Change of Operator</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: Federal UTU-56186
2. NAME OF OPERATOR: Richardson Operating Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 4725 S Monaco St. Suite 200 CITY Denver STATE CO ZIP 80237		7. UNIT or CA AGREEMENT NAME: NA
PHONE NUMBER: (303) 830-8000		8. WELL NAME and NUMBER: HAVASU-FEDERAL 22-19
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1850 N 1255 W		9. API NUMBER: 037-31278
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 19 38S 24E		10. FIELD AND POOL, OR WILDCAT: KACHINA
COUNTY: SAN JUAN		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Citation Oil & Gas Corp. has sold the captioned well to Richardson Operating Company and requests that they be named as Operator of Record effective 4/1/2013

Please release this well from coverage under Citation Oil & Gas Corp.'s Utah Statewide Bond # 104325628.

On behalf of Citation Oil & Gas Corp. I hereby certify that the foregoing is true and correct:

Sharon Ward Permitting Manager: Sharon Ward Date: 4/1/2013

By execution of this document, Richardson Operating Company requests the State of Utah to approve them as Operator of Record for the above captioned well and accepts responsibility for this well under it's Statewide Oil and Gas Lease Bond in favor of the United States Department of the Interior, Bureau of Land Management Bond # RLB0002500.

On behalf of Richardson Operating Company, I hereby certify that the foregoing is true and correct:	
NAME (PLEASE PRINT) <u>David B. Richardson, Jr.</u>	TITLE <u>President</u>
SIGNATURE <u>D.B. Richardson</u>	DATE <u>7-29-2013</u>

(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.
N/A **UTU-56186**
6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☒ Other **TA**

2. Name of Operator
Richardson Operating Company

3a. Address
4725 S. Monaco St. Ste. 200 Denver, CO 80237

3b. Phone No. (include area code)
(303)830-8000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Lat: 37.474631 Long: -109.331146
SANW SEC 19 T38S R24E

7. If Unit of CA/Agreement, Name and/or No.
N/A

8. Well Name and No.
N/A **HAVASU - FEDERAL 22-19**

9. API Well No.
43-037-31278

10. Field and Pool or Exploratory Area
Kachina Field

11. County or Parish, State
Garfield County, Utah

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

On May 2nd, 2015 Richardson Operating Company temporarily shut in it's Kachina Field. This includes the following wells:

Havasus Federal 22-19 - API: 43-037-31278
Havasus Federal 41-24 - API: 43-037-31279
Havasus Federal 42-24 - API: 43-037-31298
Havasus Federal 11-19 - API: 43-037-31458
Arabian Federal 3 - API 43-037-31287
Wash Unit 2 - API: 43-037-31324

The field will remain shut-in until economic conditions improve.

Accepted by the
Utah Division of
Oil, Gas and Mining
For Record Only
Federal Approval Of This

RECEIVED

MAY 11 2015

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Cody Niehus

Action Is Necessary

Title Geo Tech

Signature

Date 05/04/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)